

$$\frac{R}{R} \left( \frac{R}{U} \right) , .$$
**R**

( $t$  2017  $t$  8 2018)

Handwritten musical notation on a page with a grid. The notation consists of vertical stems and horizontal lines, forming a complex pattern. There are several instances of a circled '5' and a circled 'X' within the notation.

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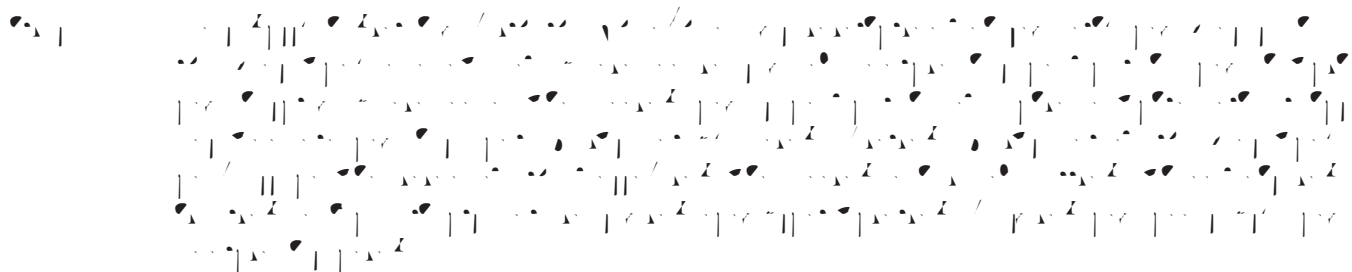
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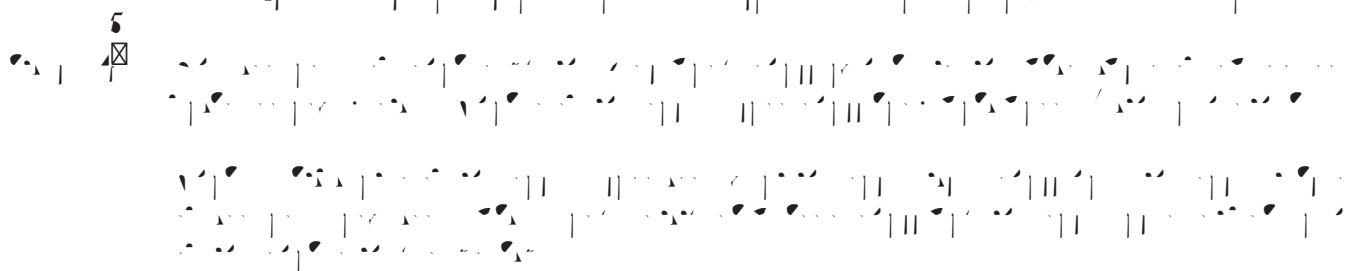
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t 3

t 1



Handwritten musical notation on two staves. The notation includes various note values, rests, and bar lines. The first staff begins with a treble clef and a key signature of one sharp (F#).

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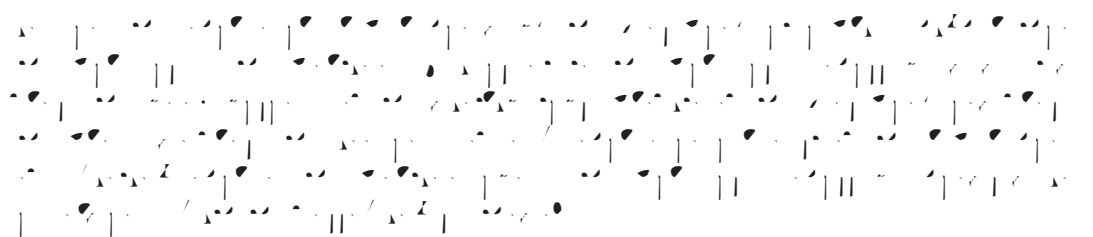
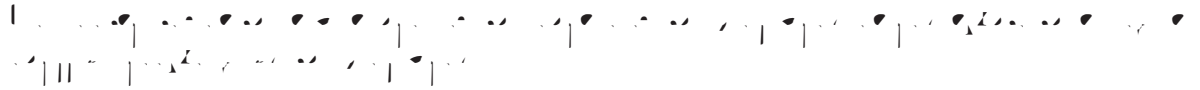
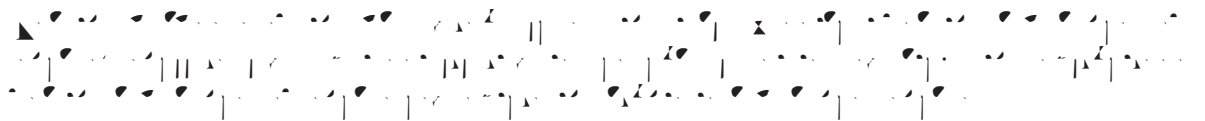
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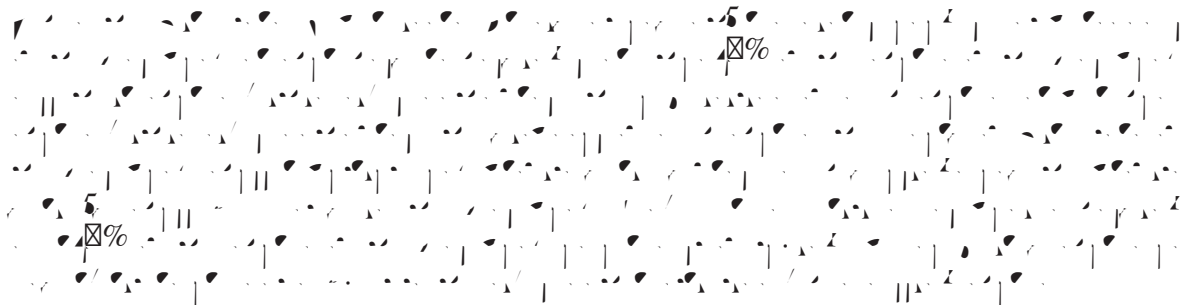
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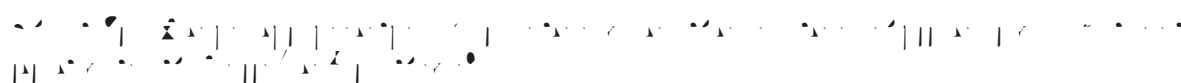




t 4

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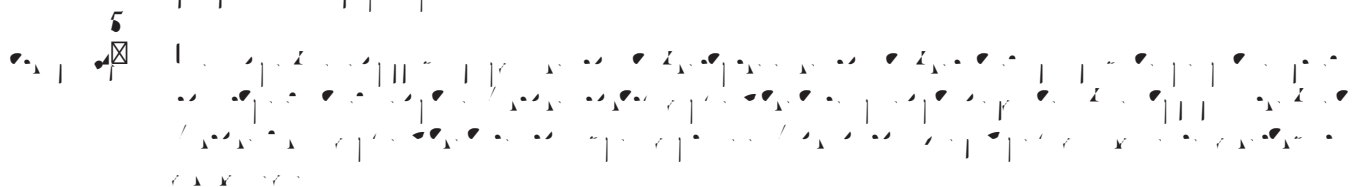
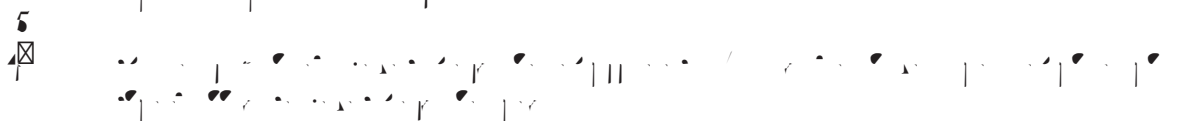
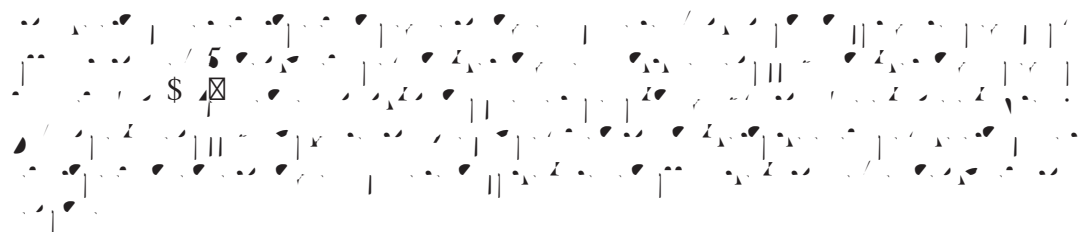
1. *Chlorophyll* *a* and *b* contents were determined by the method of Lichtenthaler and Sponholz (1980). The total protein content of the leaves was determined by the method of Lowry (1956).

5  
 4

[illegible]

The image shows a musical score for the song "The Rose Tree". It is written for a single voice and piano accompaniment. The key signature has one flat (B-flat), and the time signature is 4/4. The melody is simple and catchy, with a repeating chorus. The piano accompaniment consists of a steady bass line and a treble line that complements the melody. The score is written on a single page with a decorative border.

[illegible]





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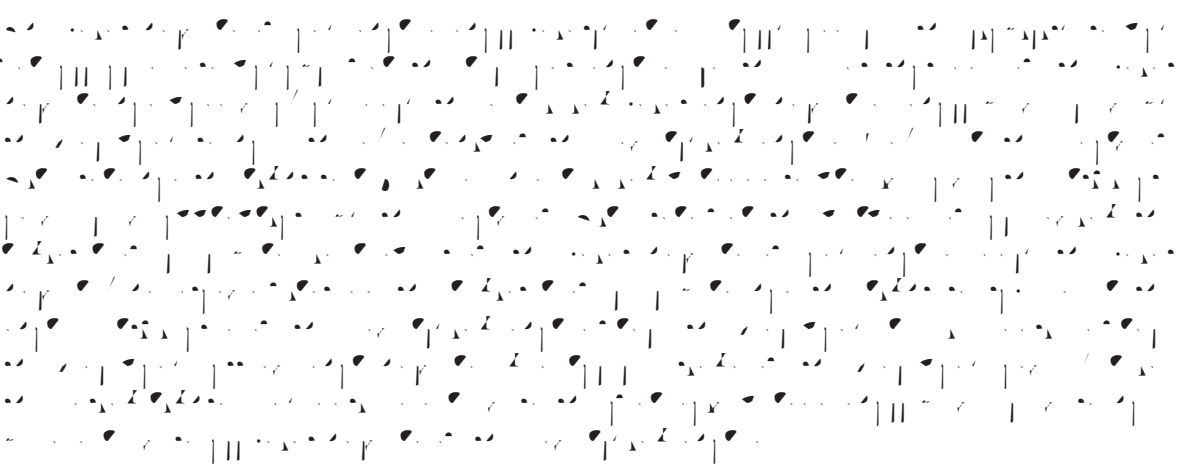
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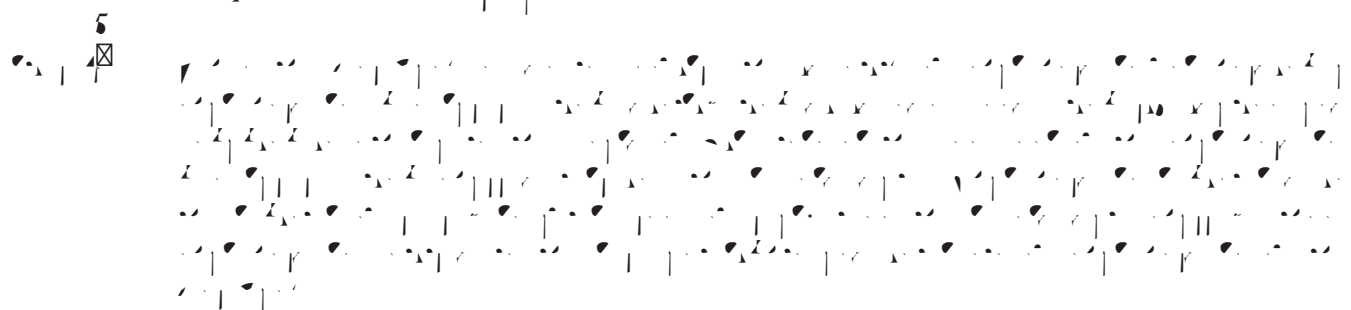
t 5

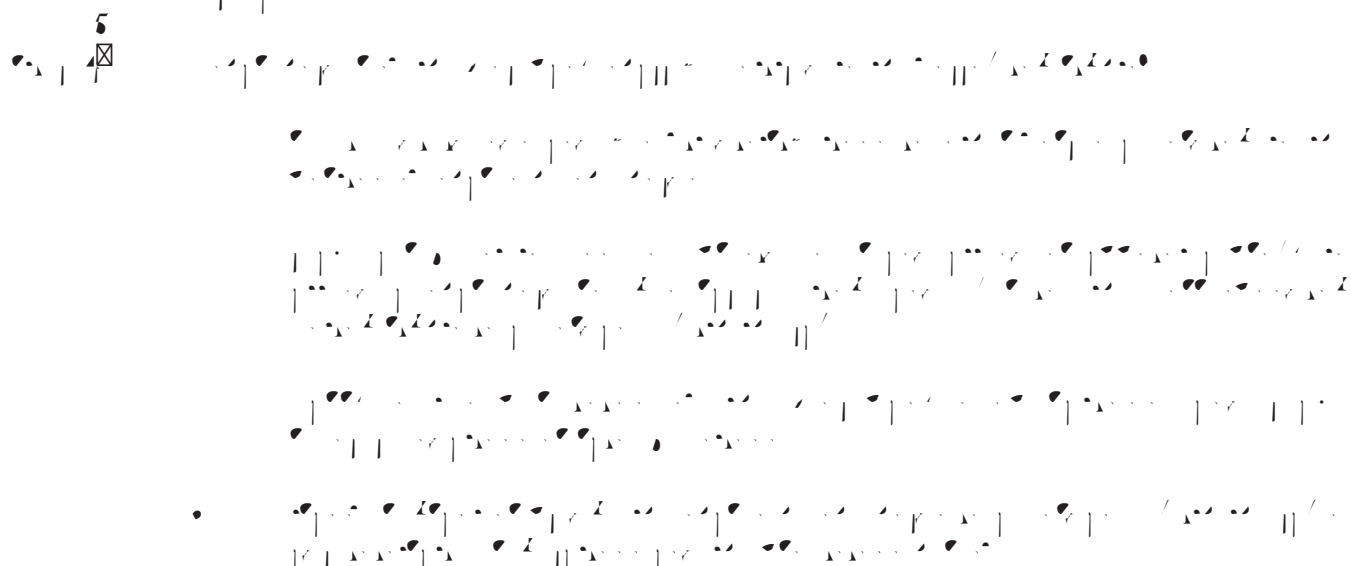
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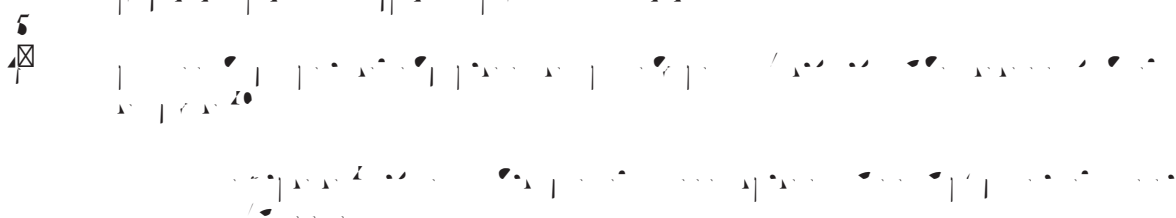
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t 1

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[illegible]

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[illegible]

1. *Chlorophyll a* (Chl *a*) is the primary photosynthetic pigment in most algae and higher plants. It is a green pigment that absorbs light energy in the blue and red regions of the visible spectrum. Chl *a* is essential for the light-dependent reactions of photosynthesis, where it converts light energy into chemical energy.

2. *Chlorophyll b* (Chl *b*) is an accessory pigment found in green algae and higher plants. It absorbs light energy in the blue and orange-red regions of the visible spectrum. Chl *b* transfers the absorbed energy to Chl *a* for use in photosynthesis.

3. *Carotenoids* are a group of pigments that include carotenes and xanthophylls. They absorb light energy in the blue and green regions of the visible spectrum. Carotenoids act as accessory pigments, transferring energy to Chl *a*. They also play a role in protecting the photosynthetic apparatus from damage by excess light energy.

4. *Phycocyanin* (PC) is a blue pigment found in cyanobacteria and some algae. It absorbs light energy in the orange and red regions of the visible spectrum. PC is part of the phycobiliprotein complex, which is involved in the light-harvesting process.

5. *Peridinin* (Per) is a red pigment found in certain dinoflagellates. It absorbs light energy in the blue and green regions of the visible spectrum. Peridinin is part of the peridinin-chlorophyll *a* protein complex, which is involved in the light-harvesting process.

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[illegible]

5

[illegible]

$\frac{1}{\sqrt{\pi}} \left( \frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) dx \right)$

||: C4 - C5 - C6 - C7 - C8 - C9 - C10 - C11 - C12 - C13 - C14 - C15 - C16 - C17 - C18 - C19 - C20 - C21 - C22 - C23 - C24 - C25 - C26 - C27 - C28 - C29 - C30 - C31 - C32 - C33 - C34 - C35 - C36 - C37 - C38 - C39 - C40 - C41 - C42 - C43 - C44 - C45 - C46 - C47 - C48 - C49 - C50 - C51 - C52 - C53 - C54 - C55 - C56 - C57 - C58 - C59 - C60 - C61 - C62 - C63 - C64 - C65 - C66 - C67 - C68 - C69 - C70 - C71 - C72 - C73 - C74 - C75 - C76 - C77 - C78 - C79 - C80 - C81 - C82 - C83 - C84 - C85 - C86 - C87 - C88 - C89 - C90 - C91 - C92 - C93 - C94 - C95 - C96 - C97 - C98 - C99 - C100 - C101 - C102 - C103 - C104 - C105 - C106 - C107 - C108 - C109 - C110 - C111 - C112 - C113 - C114 - C115 - C116 - C117 - C118 - C119 - C120 - C121 - C122 - C123 - C124 - C125 - C126 - C127 - C128 - C129 - C130 - C131 - C132 - C133 - C134 - C135 - C136 - C137 - C138 - C139 - C140 - C141 - C142 - C143 - C144 - C145 - C146 - C147 - C148 - C149 - C150 - C151 - C152 - C153 - C154 - C155 - C156 - C157 - C158 - C159 - C160 - 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•  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$  (one quarter of the whole)  
 $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$  (one sixth of the whole)  
 $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$  (one eighth of the whole)  
 $\frac{1}{2} \times \frac{1}{5} = \frac{1}{10}$  (one tenth of the whole)  
 $\frac{1}{2} \times \frac{1}{6} = \frac{1}{12}$  (one twelfth of the whole)  
 $\frac{1}{2} \times \frac{1}{7} = \frac{1}{14}$  (one fourteenth of the whole)  
 $\frac{1}{2} \times \frac{1}{8} = \frac{1}{16}$  (one sixteenth of the whole)  
 $\frac{1}{2} \times \frac{1}{9} = \frac{1}{18}$  (one eighteenth of the whole)  
 $\frac{1}{2} \times \frac{1}{10} = \frac{1}{20}$  (one twentieth of the whole)

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1.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$   
 2.  $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$   
 3.  $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$   
 4.  $\frac{1}{2} \times \frac{1}{8} = \frac{1}{16}$   
 5.  $\frac{1}{4} \times \frac{1}{8} = \frac{1}{32}$   
 6.  $\frac{1}{2} \times \frac{1}{16} = \frac{1}{32}$   
 7.  $\frac{1}{4} \times \frac{1}{16} = \frac{1}{64}$   
 8.  $\frac{1}{2} \times \frac{1}{32} = \frac{1}{64}$   
 9.  $\frac{1}{4} \times \frac{1}{32} = \frac{1}{128}$   
 10.  $\frac{1}{2} \times \frac{1}{64} = \frac{1}{128}$   
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 70.  $\frac{1}{2} \times \frac{1}{137438953472} = \frac{1}{137438953472}$   
 71.  $\frac{1}{4} \times \frac{1}{137438953472} = \frac{1}{274877906944}$   
 72.  $\frac{1}{2} \times \frac{1}{274877906944} = \frac{1}{274877906944}$   
 73.  $\frac{1}{4} \times \frac{1}{274877906944} = \frac{1}{549755813888}$   
 74.  $\frac{1}{2} \times \frac{1}{549755813888} = \frac{1}{549755813888}$   
 75.  $\frac{1}{4} \times \frac{1}{549755813888} = \frac{1}{1099511627776}$   
 76.  $\frac{1}{2} \times \frac{1}{1099511627776} = \frac{1}{1099511627776}$   
 77.  $\frac{1}{4} \times \frac{1}{1099511627776} = \frac{1}{2199023255552}$   
 78.  $\frac{1}{2} \times \frac{1}{2199023255552} = \frac{1}{2199023255552}$   
 79.  $\frac{1}{4} \times \frac{1}{2199023255552} = \frac{1}{4398046511104}$   
 80.  $\frac{1}{2} \times \frac{1}{4398046511104} = \frac{1}{4398046511104}$   
 81.  $\frac{1}{4} \times \frac{1}{4398046511104} = \frac{1}{8796093022208}$   
 82.  $\frac{1}{2} \times \frac{1}{8796093022208} = \frac{1}{8796093022208}$   
 83.  $\frac{1}{4} \times \frac{1}{8796093022208} = \frac{1}{17592186044416}$   
 84.  $\frac{1}{2} \times \frac{1}{17592186044416} = \frac{1}{175921$

5



1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

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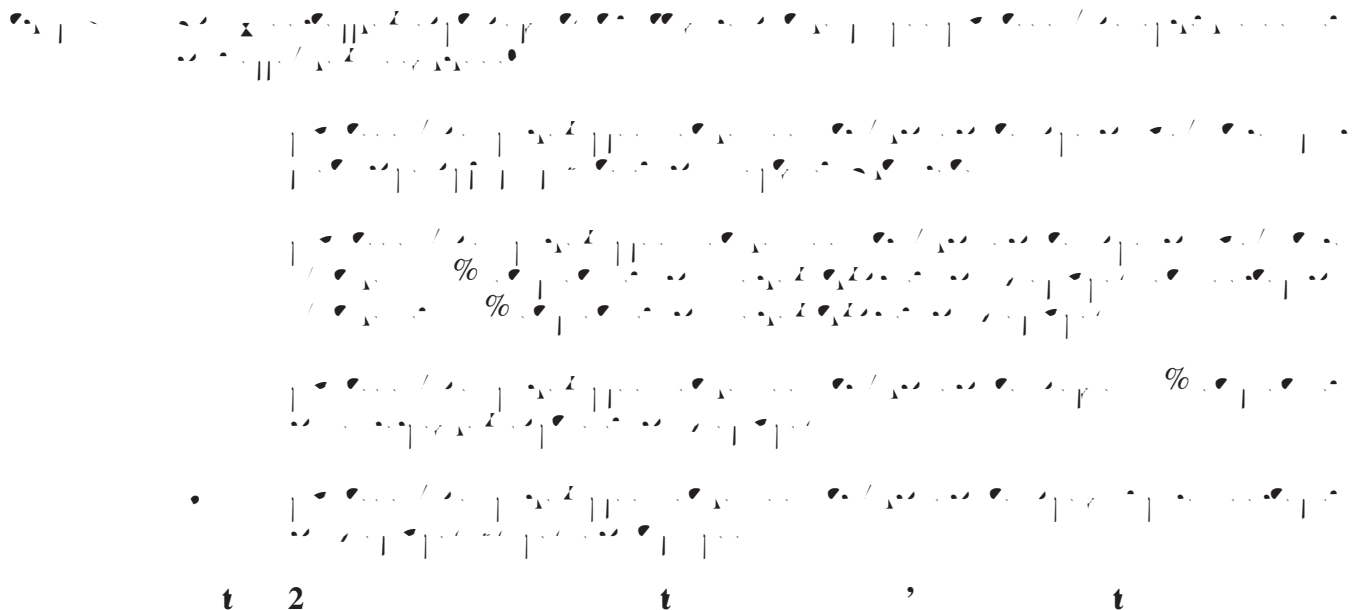
5

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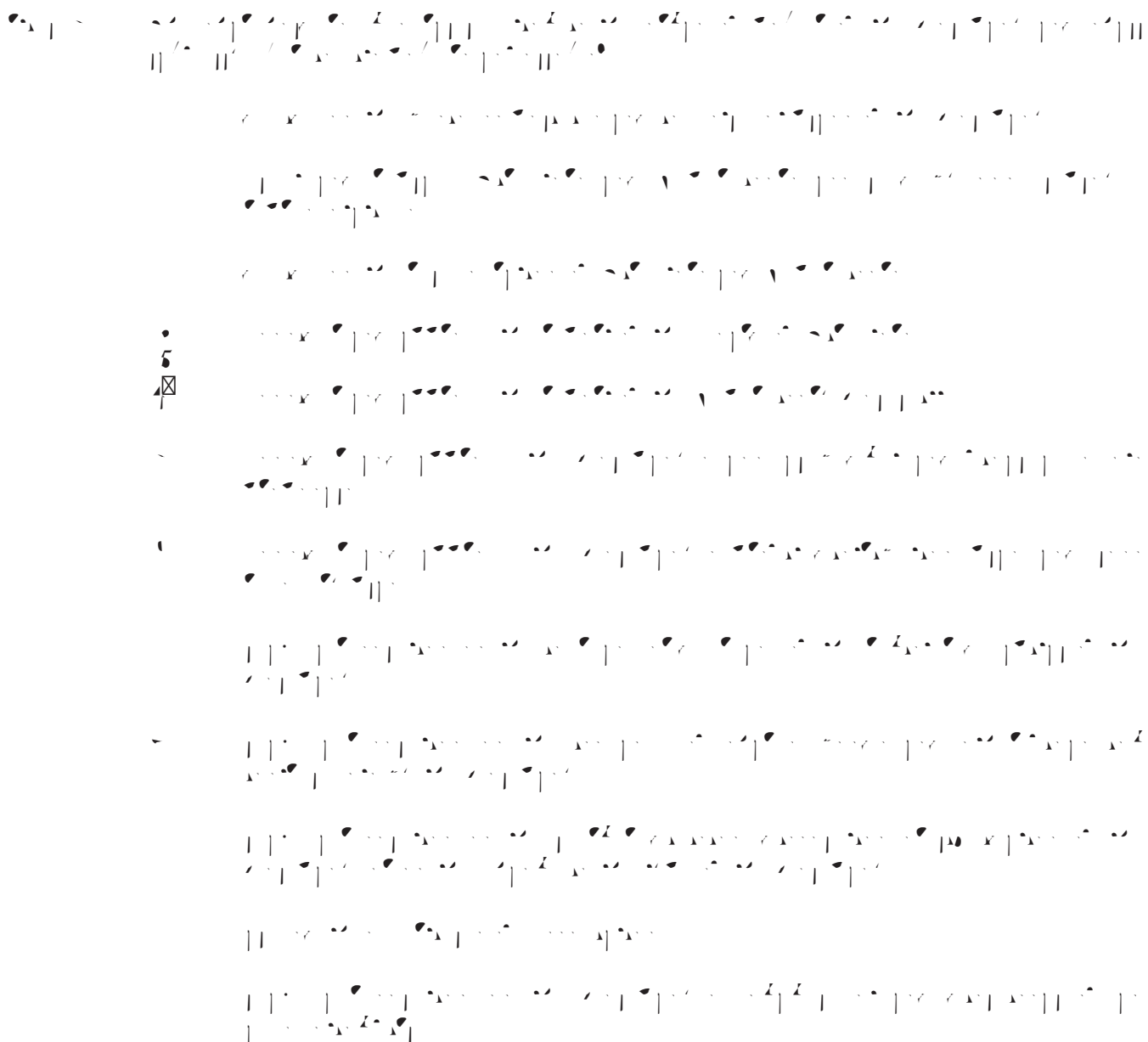
20

1.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$   
 2.  $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$   
 3.  $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$   
 4.  $\frac{1}{2} \times \frac{1}{8} = \frac{1}{16}$   
 5.  $\frac{1}{4} \times \frac{1}{8} = \frac{1}{32}$   
 6.  $\frac{1}{8} \times \frac{1}{8} = \frac{1}{64}$   
 7.  $\frac{1}{2} \times \frac{1}{16} = \frac{1}{32}$   
 8.  $\frac{1}{4} \times \frac{1}{16} = \frac{1}{64}$   
 9.  $\frac{1}{8} \times \frac{1}{16} = \frac{1}{128}$   
 10.  $\frac{1}{2} \times \frac{1}{32} = \frac{1}{64}$   
 11.  $\frac{1}{4} \times \frac{1}{32} = \frac{1}{128}$   
 12.  $\frac{1}{8} \times \frac{1}{32} = \frac{1}{256}$   
 13.  $\frac{1}{2} \times \frac{1}{64} = \frac{1}{128}$   
 14.  $\frac{1}{4} \times \frac{1}{64} = \frac{1}{256}$   
 15.  $\frac{1}{8} \times \frac{1}{64} = \frac{1}{512}$   
 16.  $\frac{1}{2} \times \frac{1}{128} = \frac{1}{256}$   
 17.  $\frac{1}{4} \times \frac{1}{128} = \frac{1}{512}$   
 18.  $\frac{1}{8} \times \frac{1}{128} = \frac{1}{1024}$   
 19.  $\frac{1}{2} \times \frac{1}{256} = \frac{1}{512}$   
 20.  $\frac{1}{4} \times \frac{1}{256} = \frac{1}{1024}$   
 21.  $\frac{1}{8} \times \frac{1}{256} = \frac{1}{2048}$   
 22.  $\frac{1}{2} \times \frac{1}{512} = \frac{1}{1024}$   
 23.  $\frac{1}{4} \times \frac{1}{512} = \frac{1}{2048}$   
 24.  $\frac{1}{8} \times \frac{1}{512} = \frac{1}{4096}$   
 25.  $\frac{1}{2} \times \frac{1}{1024} = \frac{1}{512}$   
 26.  $\frac{1}{4} \times \frac{1}{1024} = \frac{1}{2048}$   
 27.  $\frac{1}{8} \times \frac{1}{1024} = \frac{1}{4096}$   
 28.  $\frac{1}{2} \times \frac{1}{2048} = \frac{1}{1024}$   
 29.  $\frac{1}{4} \times \frac{1}{2048} = \frac{1}{512}$   
 30.  $\frac{1}{8} \times \frac{1}{2048} = \frac{1}{1024}$   
 31.  $\frac{1}{2} \times \frac{1}{4096} = \frac{1}{2048}$   
 32.  $\frac{1}{4} \times \frac{1}{4096} = \frac{1}{1024}$   
 33.  $\frac{1}{8} \times \frac{1}{4096} = \frac{1}{2048}$   
 34.  $\frac{1}{2} \times \frac{1}{8192} = \frac{1}{4096}$   
 35.  $\frac{1}{4} \times \frac{1}{8192} = \frac{1}{2048}$   
 36.  $\frac{1}{8} \times \frac{1}{8192} = \frac{1}{4096}$   
 37.  $\frac{1}{2} \times \frac{1}{16384} = \frac{1}{8192}$   
 38.  $\frac{1}{4} \times \frac{1}{16384} = \frac{1}{4096}$   
 39.  $\frac{1}{8} \times \frac{1}{16384} = \frac{1}{8192}$   
 40.  $\frac{1}{2} \times \frac{1}{32768} = \frac{1}{16384}$   
 41.  $\frac{1}{4} \times \frac{1}{32768} = \frac{1}{8192}$   
 42.  $\frac{1}{8} \times \frac{1}{32768} = \frac{1}{16384}$   
 43.  $\frac{1}{2} \times \frac{1}{65536} = \frac{1}{32768}$   
 44.  $\frac{1}{4} \times \frac{1}{65536} = \frac{1}{16384}$   
 45.  $\frac{1}{8} \times \frac{1}{65536} = \frac{1}{32768}$   
 46.  $\frac{1}{2} \times \frac{1}{131072} = \frac{1}{65536}$   
 47.  $\frac{1}{4} \times \frac{1}{131072} = \frac{1}{32768}$   
 48.  $\frac{1}{8} \times \frac{1}{131072} = \frac{1}{65536}$   
 49.  $\frac{1}{2} \times \frac{1}{262144} = \frac{1}{131072}$   
 50.  $\frac{1}{4} \times \frac{1}{262144} = \frac{1}{65536}$   
 51.  $\frac{1}{8} \times \frac{1}{262144} = \frac{1}{131072}$   
 52.  $\frac{1}{2} \times \frac{1}{524288} = \frac{1}{262144}$   
 53.  $\frac{1}{4} \times \frac{1}{524288} = \frac{1}{131072}$   
 54.  $\frac{1}{8} \times \frac{1}{524288} = \frac{1}{262144}$   
 55.  $\frac{1}{2} \times \frac{1}{1048576} = \frac{1}{524288}$   
 56.  $\frac{1}{4} \times \frac{1}{1048576} = \frac{1}{262144}$   
 57.  $\frac{1}{8} \times \frac{1}{1048576} = \frac{1}{524288}$   
 58.  $\frac{1}{2} \times \frac{1}{2097152} = \frac{1}{1048576}$   
 59.  $\frac{1}{4} \times \frac{1}{2097152} = \frac{1}{524288}$   
 60.  $\frac{1}{8} \times \frac{1}{2097152} = \frac{1}{1048576}$   
 61.  $\frac{1}{2} \times \frac{1}{4194304} = \frac{1}{2097152}$   
 62.  $\frac{1}{4} \times \frac{1}{4194304} = \frac{1}{1048576}$   
 63.  $\frac{1}{8} \times \frac{1}{4194304} = \frac{1}{2097152}$   
 64.  $\frac{1}{2} \times \frac{1}{8388608} = \frac{1}{4194304}$   
 65.  $\frac{1}{4} \times \frac{1}{8388608} = \frac{1}{2097152}$   
 66.  $\frac{1}{8} \times \frac{1}{8388608} = \frac{1}{4194304}$   
 67.  $\frac{1}{2} \times \frac{1}{16777216} = \frac{1}{8388608}$   
 68.  $\frac{1}{4} \times \frac{1}{16777216} = \frac{1}{4194304}$   
 69.  $\frac{1}{8} \times \frac{1}{16777216} = \frac{1}{8388608}$   
 70.  $\frac{1}{2} \times \frac{1}{33554432} = \frac{1}{16777216}$   
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 72.  $\frac{1}{8} \times \frac{1}{33554432} = \frac{1}{16777216}$   
 73.  $\frac{1}{2} \times \frac{1}{67108864} = \frac{1}{33554432}$   
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 76.  $\frac{1}{2} \times \frac{1}{134217728} = \frac{1}{67108864}$   
 77.  $\frac{1}{4} \times \frac{1}{134217728} = \frac{1}{33554432}$   
 78.  $\frac{1}{8} \times \frac{1}{134217728} = \frac{1}{67108864}$   
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 80.  $\frac{1}{4} \times \frac{1}{268435456} = \frac{1}{67108864}$   
 81.  $\frac{1}{8} \times \frac{1}{268435456} = \frac{1}{134217728}$   
 82.  $\frac{1}{2} \times \frac{1}{536870912} = \frac{1}{268435456}$   
 83.  $\frac{1}{4} \times \frac{1}{536870912} = \frac{1}{134217728}$   
 84.  $\frac{1}{8} \times \frac{1}{536870912} = \frac{1}{268435456}$   
 85.  $\frac{1}{2} \times \frac{1}{1073741824} = \frac{1}{536870912}$   
 86.  $\frac{1}{4} \times \frac{1}{1073741824} = \frac{1}{268435456}$   
 87.  $\frac{1}{8} \times \frac{1}{1073741824} = \frac{1}{536870912}$   
 88.  $\frac{1}{2} \times \frac{1}{2147483648} = \frac{1}{1073741824}$   
 89.  $\frac{1}{4} \times \frac{1}{2147483648} = \frac{1}{536870912}$   
 90.  $\frac{1}{8} \times \frac{1}{2147483648} = \frac{1}{1073741824}$   
 91.  $\frac{1}{2} \times \frac{1}{4294967296} = \frac{1}{2147483648}$   
 92.  $\$





**t 2 t , t**



**5**  
**4**

Handwritten musical notation on five staves. The notation includes various notes, rests, and bar lines. A percentage sign (%) is visible on the second staff.

Handwritten musical notation on a single staff, continuing the sequence.

Handwritten musical notation on a single staff, featuring a measure with a circled '5' and a percentage sign (%).

Handwritten musical notation on a single staff, featuring a percentage sign (%) in the middle.

Handwritten musical notation on a single staff, starting with a percentage sign (%).

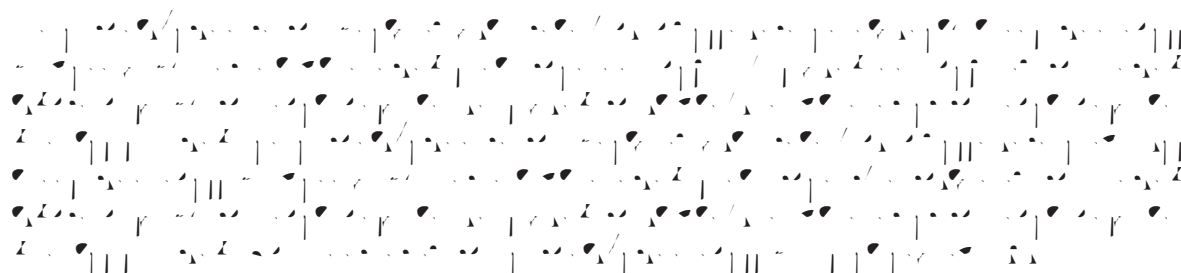
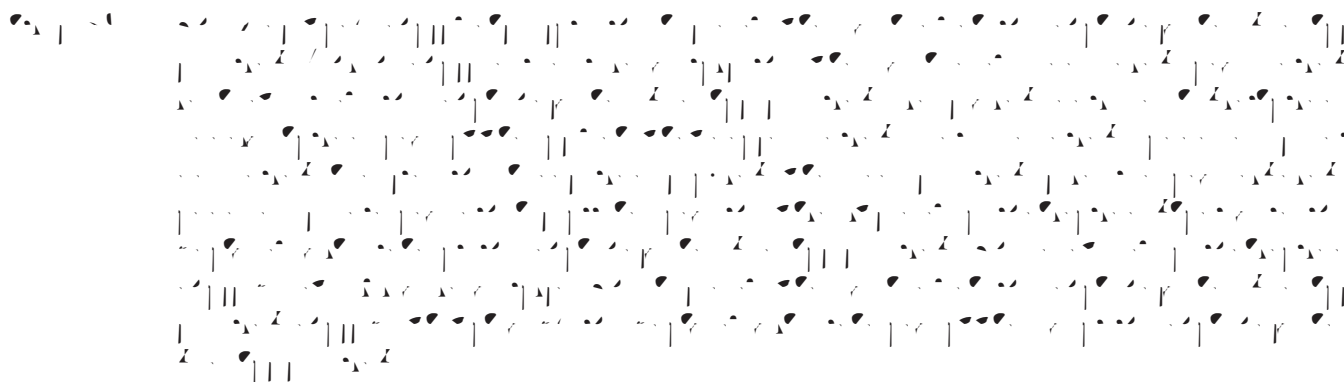
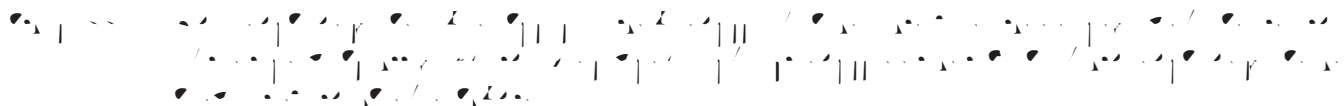
Handwritten musical notation on a single staff, ending with a percentage sign (%).

Handwritten musical notation on a single staff, starting with a circled '5' and a percentage sign (%).

Handwritten musical notation on a single staff, starting with a circled '5' and a percentage sign (%).

Handwritten musical notation on a single staff, featuring a dense sequence of notes.

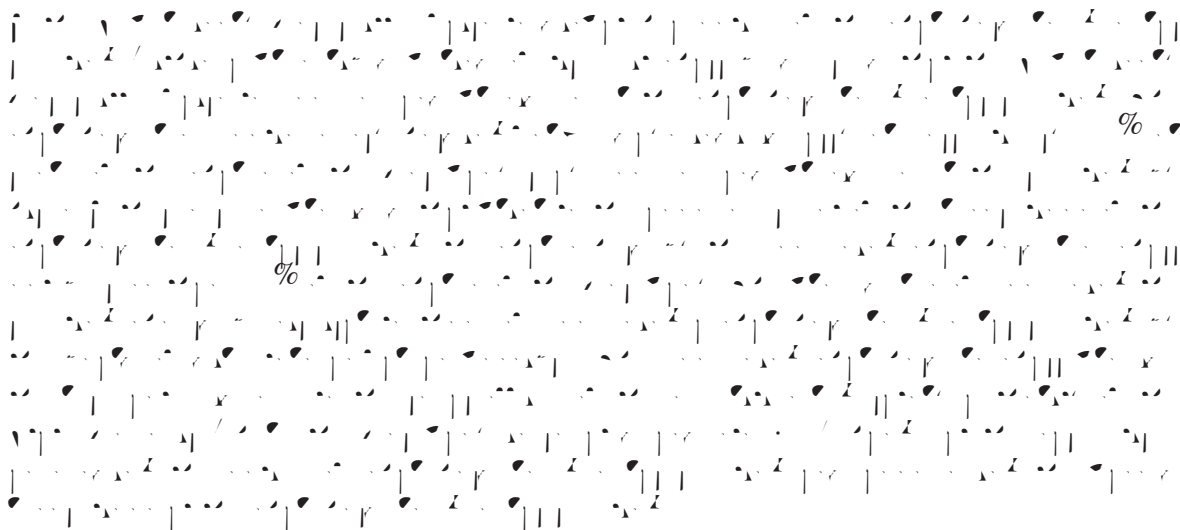
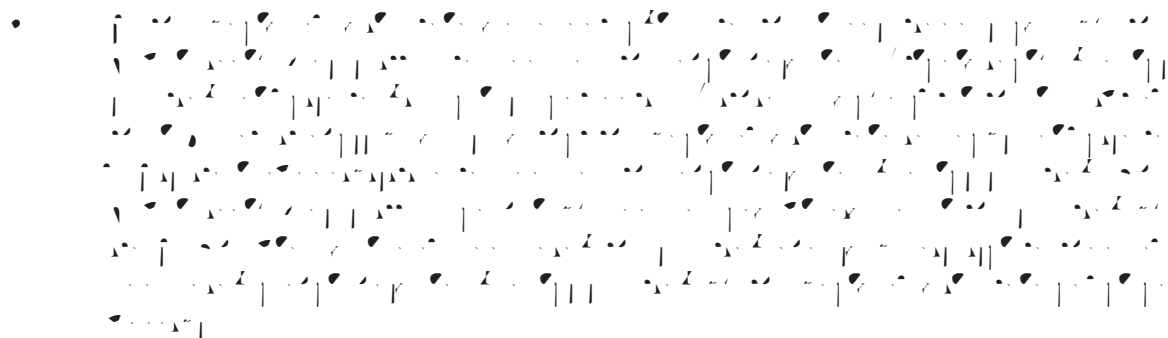
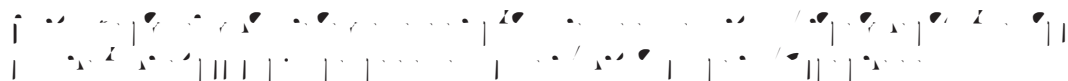
Handwritten musical notation on a single staff, featuring a dense sequence of notes.





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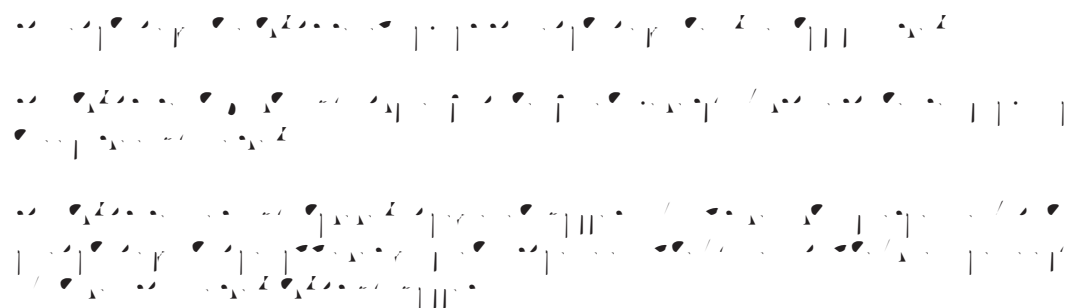
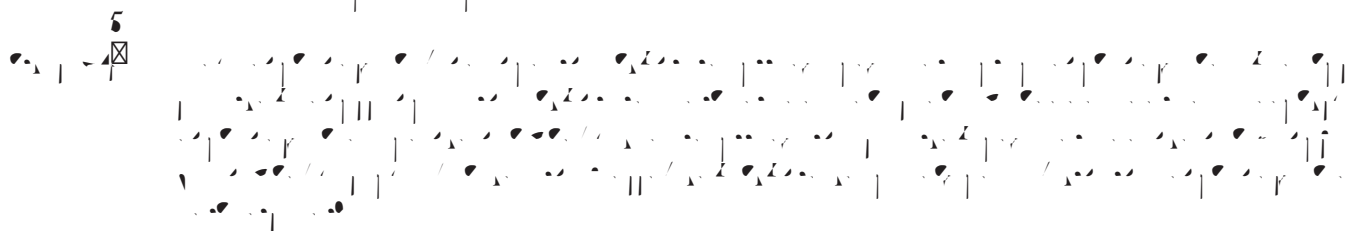


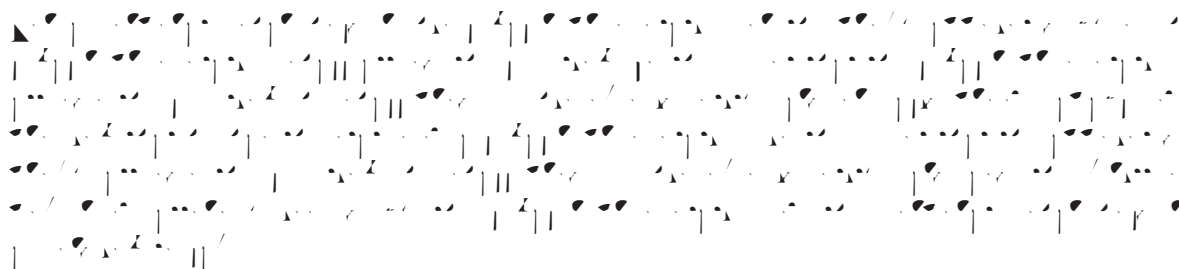






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**The Little Boat**  
J. S. Bach

Allegretto

1.  $\text{B}^b$  2.  $\text{B}^b$  3.  $\text{B}^b$  4.  $\text{B}^b$  5.  $\text{B}^b$  6.  $\text{B}^b$  7.  $\text{B}^b$  8.  $\text{B}^b$  9.  $\text{B}^b$  10.  $\text{B}^b$  11.  $\text{B}^b$  12.  $\text{B}^b$  13.  $\text{B}^b$  14.  $\text{B}^b$  15.  $\text{B}^b$  16.  $\text{B}^b$

1.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$   
 2.  $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$   
 3.  $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$   
 4.  $\frac{1}{2} \times \frac{1}{8} = \frac{1}{16}$   
 5.  $\frac{1}{4} \times \frac{1}{8} = \frac{1}{32}$   
 6.  $\frac{1}{2} \times \frac{1}{16} = \frac{1}{32}$   
 7.  $\frac{1}{4} \times \frac{1}{16} = \frac{1}{64}$   
 8.  $\frac{1}{2} \times \frac{1}{32} = \frac{1}{64}$   
 9.  $\frac{1}{4} \times \frac{1}{32} = \frac{1}{128}$   
 10.  $\frac{1}{2} \times \frac{1}{64} = \frac{1}{128}$   
 11.  $\frac{1}{4} \times \frac{1}{128} = \frac{1}{256}$   
 12.  $\frac{1}{2} \times \frac{1}{256} = \frac{1}{256}$   
 13.  $\frac{1}{4} \times \frac{1}{256} = \frac{1}{512}$   
 14.  $\frac{1}{2} \times \frac{1}{512} = \frac{1}{512}$   
 15.  $\frac{1}{4} \times \frac{1}{512} = \frac{1}{1024}$   
 16.  $\frac{1}{2} \times \frac{1}{1024} = \frac{1}{1024}$   
 17.  $\frac{1}{4} \times \frac{1}{1024} = \frac{1}{2048}$   
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 31.  $\frac{1}{4} \times \frac{1}{131072} = \frac{1}{262144}$   
 32.  $\frac{1}{2} \times \frac{1}{262144} = \frac{1}{262144}$   
 33.  $\frac{1}{4} \times \frac{1}{262144} = \frac{1}{524288}$   
 34.  $\frac{1}{2} \times \frac{1}{524288} = \frac{1}{524288}$   
 35.  $\frac{1}{4} \times \frac{1}{524288} = \frac{1}{1048576}$   
 36.  $\frac{1}{2} \times \frac{1}{1048576} = \frac{1}{1048576}$   
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 43.  $\frac{1}{4} \times \frac{1}{8388608} = \frac{1}{16777216}$   
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 66.  $\frac{1}{2} \times \frac{1}{34359738368} = \frac{1}{34359738368}$   
 67.  $\frac{1}{4} \times \frac{1}{34359738368} = \frac{1}{68719476736}$   
 68.  $\frac{1}{2} \times \frac{1}{68719476736} = \frac{1}{68719476736}$   
 69.  $\frac{1}{4} \times \frac{1}{68719476736} = \frac{1}{137438953472}$   
 70.  $\frac{1}{2} \times \frac{1}{137438953472} = \frac{1}{137438953472}$   
 71.  $\frac{1}{4} \times \frac{1}{137438953472} = \frac{1}{274877906944}$   
 72.  $\frac{1}{2} \times \frac{1}{274877906944} = \frac{1}{274877906944}$   
 73.  $\frac{1}{4} \times \frac{1}{274877906944} = \frac{1}{549755813888}$   
 74.  $\frac{1}{2} \times \frac{1}{549755813888} = \frac{1}{549755813888}$   
 75.  $\frac{1}{4} \times \frac{1}{549755813888} = \frac{1}{1099511627776}$   
 76.  $\frac{1}{2} \times \frac{1}{1099511627776} = \frac{1}{1099511627776}$   
 77.  $\frac{1}{4} \times \frac{1}{1099511627776} = \frac{1}{2199023255552}$   
 78.  $\frac{1}{2} \times \frac{1}{2199023255552} = \frac{1}{2199023255552}$   
 79.  $\frac{1}{4} \times \frac{1}{2199023255552} = \frac{1}{4398046511104}$   
 80.  $\frac{1}{2} \times \frac{1}{4398046511104} = \frac{1}{4398046511104}$   
 81.  $\frac{1}{4} \times \frac{1}{4398046511104} = \frac{1}{8796093022208}$   
 82.  $\frac{1}{2} \times \frac{1}{8796093022208} = \frac{1}{8796093022208}$   
 83.  $\frac{1}{4} \times \frac{1}{8796093022208} = \frac{1}{17592186044416}$   
 84.  $\frac{1}{2} \times \frac{1}{17592186044416} = \frac{1}{175921$

A handwritten musical score for the song "The Rose Tree". The score is written on ten staves. The first staff begins with a treble clef, a key signature of one sharp (F#), and a 2/4 time signature. The melody is written in a simple, folk-like style with many eighth and sixteenth notes. The lyrics "The Rose Tree" are written below the first staff. The score continues with several more staves of music, including some with double bar lines and repeat signs. The handwriting is in ink on aged, slightly yellowed paper.

The Rose Tree

[illegible]

This image displays a page from a musical score, likely for a string quartet. It features multiple staves of music, each with various notes, rests, and dynamic markings. The notation is dense and typical of classical or contemporary chamber music. The page is oriented horizontally and contains a significant amount of musical information.

[illegible]

$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

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Handwritten musical notation on five staves. The notation includes various rhythmic values (quarter, eighth, sixteenth notes), rests, and bar lines. The first staff begins with a square box containing an 'X'.

Handwritten musical notation on five staves, continuing the piece. The notation includes various rhythmic values and bar lines.



Handwritten musical notation on five staves, continuing the piece. The notation includes various rhythmic values and bar lines.


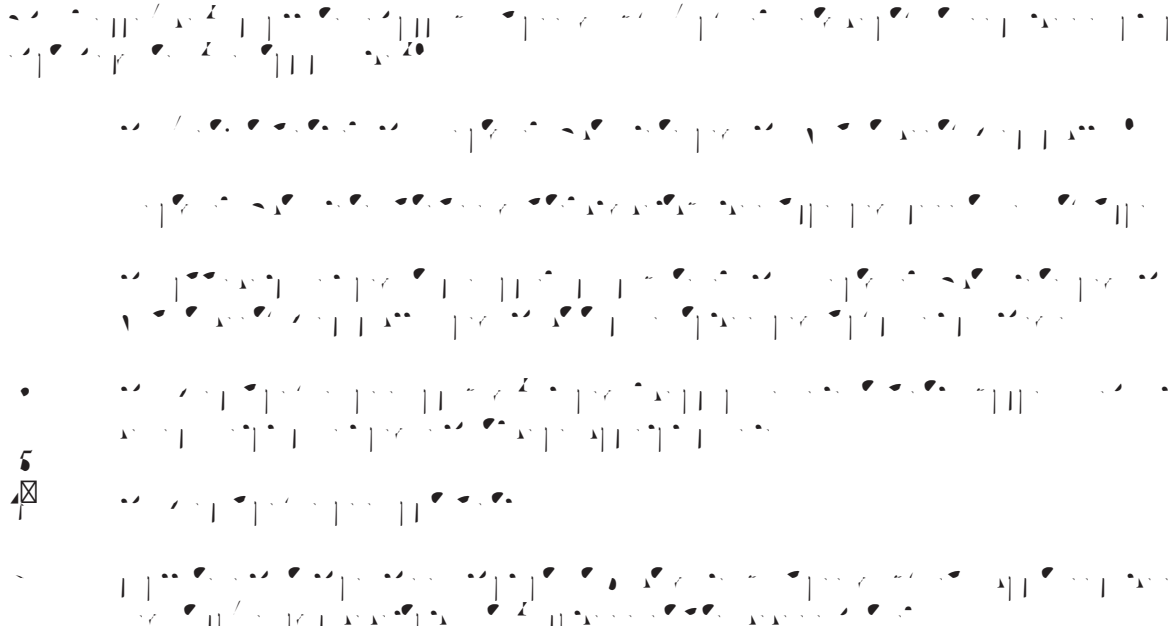






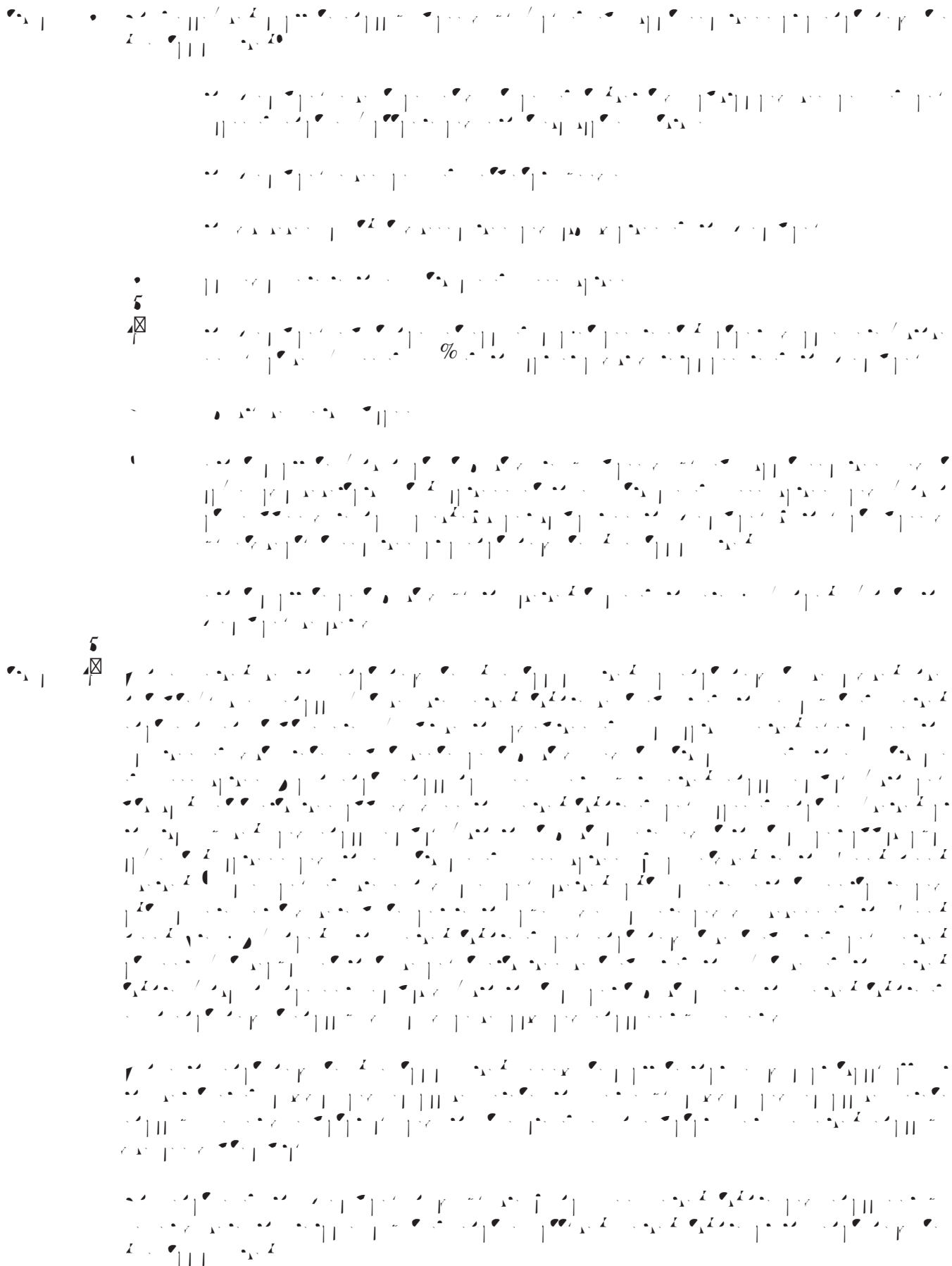


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1. *Chlorophyll* *a* and *b* contents were determined by the method of Arar and Cook (1987). The *Chlorophyll* *a* and *b* contents were determined by the method of Arar and Cook (1987). The *Chlorophyll* *a* and *b* contents were determined by the method of Arar and Cook (1987).

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The musical score for 'The Rose Tree' is presented in a single system with five staves. The first staff is the vocal melody for the voice, written in treble clef with a key signature of one flat (B-flat). The second staff is the piano accompaniment for the right hand, also in treble clef. The third staff is the piano accompaniment for the left hand, in bass clef. The fourth and fifth staves are for the guitar, both in treble clef. The music is in 2/4 time. The vocal line begins with the lyrics 'The Rose Tree' and continues with the melody. The piano accompaniment provides a harmonic and rhythmic foundation. The guitar accompaniment is written in a style that complements the piano part, using a mix of chords and single notes. The score is a complete musical setting of the song, suitable for a solo voice and piano or guitar accompaniment.

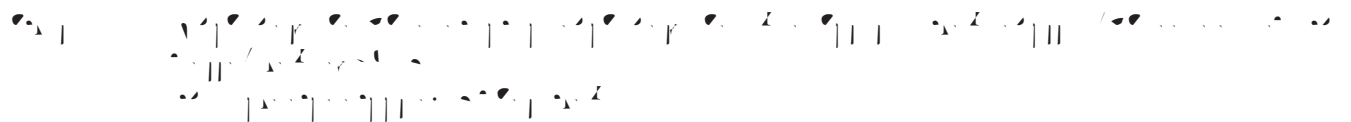
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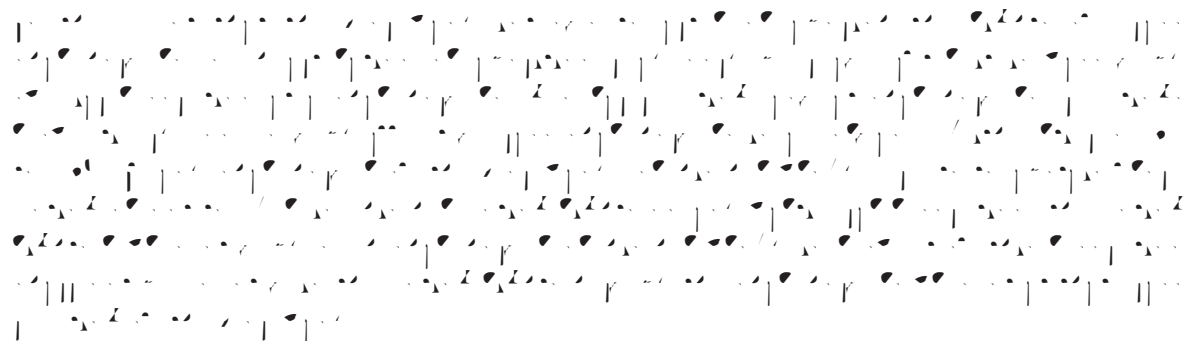
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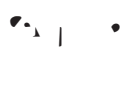
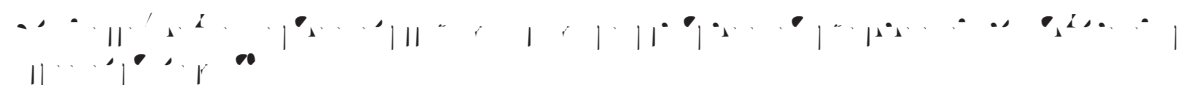
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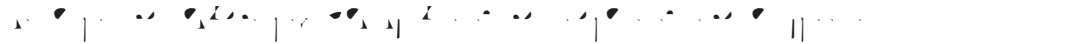


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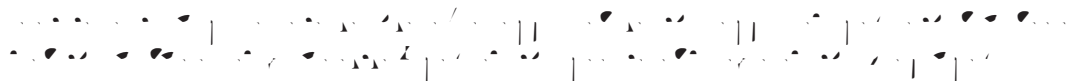








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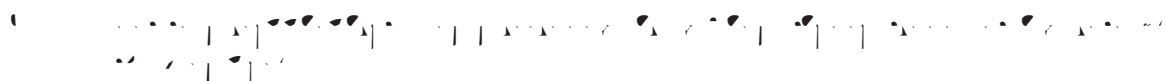
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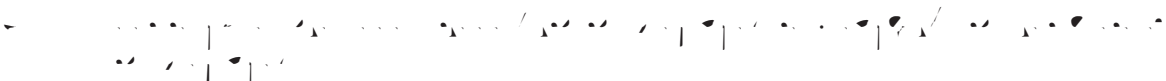
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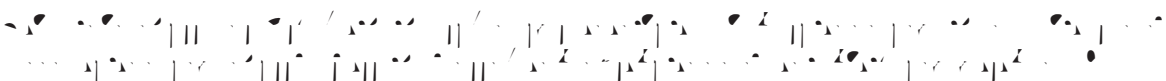


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 3.  $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$   
 4.  $\frac{1}{2} \times \frac{1}{8} = \frac{1}{16}$   
 5.  $\frac{1}{4} \times \frac{1}{8} = \frac{1}{32}$   
 6.  $\frac{1}{2} \times \frac{1}{16} = \frac{1}{32}$   
 7.  $\frac{1}{4} \times \frac{1}{16} = \frac{1}{64}$   
 8.  $\frac{1}{2} \times \frac{1}{32} = \frac{1}{64}$   
 9.  $\frac{1}{4} \times \frac{1}{32} = \frac{1}{128}$   
 10.  $\frac{1}{2} \times \frac{1}{64} = \frac{1}{128}$   
 11.  $\frac{1}{4} \times \frac{1}{128} = \frac{1}{256}$   
 12.  $\frac{1}{2} \times \frac{1}{256} = \frac{1}{256}$   
 13.  $\frac{1}{4} \times \frac{1}{256} = \frac{1}{512}$   
 14.  $\frac{1}{2} \times \frac{1}{512} = \frac{1}{512}$   
 15.  $\frac{1}{4} \times \frac{1}{512} = \frac{1}{1024}$   
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 37.  $\frac{1}{4} \times \frac{1}{1048576} = \frac{1}{2097152}$   
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 39.  $\frac{1}{4} \times \frac{1}{2097152} = \frac{1}{4194304}$   
 40.  $\frac{1}{2} \times \frac{1}{4194304} = \frac{1}{4194304}$   
 41.  $\frac{1}{4} \times \frac{1}{4194304} = \frac{1}{8388608}$   
 42.  $\frac{1}{2} \times \frac{1}{8388608} = \frac{1}{8388608}$   
 43.  $\frac{1}{4} \times \frac{1}{8388608} = \frac{1}{16777216}$   
 44.  $\frac{1}{2} \times \frac{1}{16777216} = \frac{1}{16777216}$   
 45.  $\frac{1}{4} \times \frac{1}{16777216} = \frac{1}{33554432}$   
 46.  $\frac{1}{2} \times \frac{1}{33554432} = \frac{1}{33554432}$   
 47.  $\frac{1}{4} \times \frac{1}{33554432} = \frac{1}{67108864}$   
 48.  $\frac{1}{2} \times \frac{1}{67108864} = \frac{1}{67108864}$   
 49.  $\frac{1}{4} \times \frac{1}{67108864} = \frac{1}{134217728}$   
 50.  $\frac{1}{2} \times \frac{1}{134217728} = \frac{1}{134217728}$   
 51.  $\frac{1}{4} \times \frac{1}{134217728} = \frac{1}{268435456}$   
 52.  $\frac{1}{2} \times \frac{1}{268435456} = \frac{1}{268435456}$   
 53.  $\frac{1}{4} \times \frac{1}{268435456} = \frac{1}{536870912}$   
 54.  $\frac{1}{2} \times \frac{1}{536870912} = \frac{1}{536870912}$   
 55.  $\frac{1}{4} \times \frac{1}{536870912} = \frac{1}{1073741824}$   
 56.  $\frac{1}{2} \times \frac{1}{1073741824} = \frac{1}{1073741824}$   
 57.  $\frac{1}{4} \times \frac{1}{1073741824} = \frac{1}{2147483648}$   
 58.  $\frac{1}{2} \times \frac{1}{2147483648} = \frac{1}{2147483648}$   
 59.  $\frac{1}{4} \times \frac{1}{2147483648} = \frac{1}{4294967296}$   
 60.  $\frac{1}{2} \times \frac{1}{4294967296} = \frac{1}{4294967296}$   
 61.  $\frac{1}{4} \times \frac{1}{4294967296} = \frac{1}{8589934592}$   
 62.  $\frac{1}{2} \times \frac{1}{8589934592} = \frac{1}{8589934592}$   
 63.  $\frac{1}{4} \times \frac{1}{8589934592} = \frac{1}{17179869184}$   
 64.  $\frac{1}{2} \times \frac{1}{17179869184} = \frac{1}{17179869184}$   
 65.  $\frac{1}{4} \times \frac{1}{17179869184} = \frac{1}{34359738368}$   
 66.  $\frac{1}{2} \times \frac{1}{34359738368} = \frac{1}{34359738368}$   
 67.  $\frac{1}{4} \times \frac{1}{34359738368} = \frac{1}{68719476736}$   
 68.  $\frac{1}{2} \times \frac{1}{68719476736} = \frac{1}{68719476736}$   
 69.  $\frac{1}{4} \times \frac{1}{68719476736} = \frac{1}{137438953472}$   
 70.  $\frac{1}{2} \times \frac{1}{137438953472} = \frac{1}{137438953472}$   
 71.  $\frac{1}{4} \times \frac{1}{137438953472} = \frac{1}{274877906944}$   
 72.  $\frac{1}{2} \times \frac{1}{274877906944} = \frac{1}{274877906944}$   
 73.  $\frac{1}{4} \times \frac{1}{274877906944} = \frac{1}{549755813888}$   
 74.  $\frac{1}{2} \times \frac{1}{549755813888} = \frac{1}{549755813888}$   
 75.  $\frac{1}{4} \times \frac{1}{549755813888} = \frac{1}{1099511627776}$   
 76.  $\frac{1}{2} \times \frac{1}{1099511627776} = \frac{1}{1099511627776}$   
 77.  $\frac{1}{4} \times \frac{1}{1099511627776} = \frac{1}{2199023255552}$   
 78.  $\frac{1}{2} \times \frac{1}{2199023255552} = \frac{1}{2199023255552}$   
 79.  $\frac{1}{4} \times \frac{1}{2199023255552} = \frac{1}{4398046511104}$   
 80.  $\frac{1}{2} \times \frac{1}{4398046511104} = \frac{1}{4398046511104}$   
 81.  $\frac{1}{4} \times \frac{1}{4398046511104} = \frac{1}{8796093022208}$   
 82.  $\frac{1}{2} \times \frac{1}{8796093022208} = \frac{1}{8796093022208}$   
 83.  $\frac{1}{4} \times \frac{1}{8796093022208} = \frac{1}{17592186044416}$   
 84.  $\frac{1}{2} \times \frac{1}{17592186044416} = \frac{1}{175921$

$$t \quad 3 \quad t \quad t \quad ()$$

5



1.  $\frac{1}{2}$  2.  $\frac{1}{2}$  3.  $\frac{1}{2}$  4.  $\frac{1}{2}$  5.  $\frac{1}{2}$  6.  $\frac{1}{2}$  7.  $\frac{1}{2}$  8.  $\frac{1}{2}$  9.  $\frac{1}{2}$  10.  $\frac{1}{2}$  11.  $\frac{1}{2}$  12.  $\frac{1}{2}$  13.  $\frac{1}{2}$  14.  $\frac{1}{2}$  15.  $\frac{1}{2}$  16.  $\frac{1}{2}$  17.  $\frac{1}{2}$  18.  $\frac{1}{2}$  19.  $\frac{1}{2}$  20.  $\frac{1}{2}$  21.  $\frac{1}{2}$  22.  $\frac{1}{2}$  23.  $\frac{1}{2}$  24.  $\frac{1}{2}$  25.  $\frac{1}{2}$  26.  $\frac{1}{2}$  27.  $\frac{1}{2}$  28.  $\frac{1}{2}$  29.  $\frac{1}{2}$  30.  $\frac{1}{2}$  31.  $\frac{1}{2}$  32.  $\frac{1}{2}$  33.  $\frac{1}{2}$  34.  $\frac{1}{2}$  35.  $\frac{1}{2}$  36.  $\frac{1}{2}$  37.  $\frac{1}{2}$  38.  $\frac{1}{2}$  39.  $\frac{1}{2}$  40.  $\frac{1}{2}$  41.  $\frac{1}{2}$  42.  $\frac{1}{2}$  43.  $\frac{1}{2}$  44.  $\frac{1}{2}$  45.  $\frac{1}{2}$  46.  $\frac{1}{2}$  47.  $\frac{1}{2}$  48.  $\frac{1}{2}$  49.  $\frac{1}{2}$  50.  $\frac{1}{2}$  51.  $\frac{1}{2}$  52.  $\frac{1}{2}$  53.  $\frac{1}{2}$  54.  $\frac{1}{2}$  55.  $\frac{1}{2}$  56.  $\frac{1}{2}$  57.  $\frac{1}{2}$  58.  $\frac{1}{2}$  59.  $\frac{1}{2}$  60.  $\frac{1}{2}$  61.  $\frac{1}{2}$  62.  $\frac{1}{2}$  63.  $\frac{1}{2}$  64.  $\frac{1}{2}$  65.  $\frac{1}{2}$  66.  $\frac{1}{2}$  67.  $\frac{1}{2}$  68.  $\frac{1}{2}$  69.  $\frac{1}{2}$  70.  $\frac{1}{2}$  71.  $\frac{1}{2}$  72.  $\frac{1}{2}$  73.  $\frac{1}{2}$  74.  $\frac{1}{2}$  75.  $\frac{1}{2}$  76.  $\frac{1}{2}$  77.  $\frac{1}{2}$  78.  $\frac{1}{2}$  79.  $\frac{1}{2}$  80.  $\frac{1}{2}$  81.  $\frac{1}{2}$  82.  $\frac{1}{2}$  83.  $\frac{1}{2}$  84.  $\frac{1}{2}$  85.  $\frac{1}{2}$  86.  $\frac{1}{2}$  87.  $\frac{1}{2}$  88.  $\frac{1}{2}$  89.  $\frac{1}{2}$  90.  $\frac{1}{2}$  91.  $\frac{1}{2}$  92.  $\frac{1}{2}$  93.  $\frac{1}{2}$  94.  $\frac{1}{2}$  95.  $\frac{1}{2}$  96.  $\frac{1}{2}$  97.  $\frac{1}{2}$  98.  $\frac{1}{2}$  99.  $\frac{1}{2}$  100.  $\frac{1}{2}$

1. *Pharmaceutical industry* – The pharmaceutical industry is a major player in the healthcare sector, responsible for the development, production, and distribution of drugs. It is a highly regulated industry with significant research and development costs.

The musical score for 'The Rose Tree' is presented in a single system with two staves. The top staff is for the voice and the bottom staff is for the piano accompaniment. The key signature has one flat (B-flat), and the time signature is 4/4. The melody is simple and catchy, with a clear refrain. The piano accompaniment provides a steady harmonic support with a simple chordal texture.



[illegible]

1. The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1.1) as  $\epsilon \rightarrow 0$ . It is shown that the solutions of the system (1.1) converge to the solutions of the system (1.2) in the sense of the weak convergence in the space  $L^2(\Omega; \mathbb{R}^n)$ .

[illegible]

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

*(The following are the lyrics to "The Rose Tree," which was sung by the children at the end of the play.)*

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**5**

**A**      **B**      **C**      **D**      **E**      **F**      **G**      **H**      **I**      **J**      **K**      **L**      **M**      **N**      **O**      **P**      **Q**      **R**      **S**      **T**      **U**      **V**      **W**      **X**      **Y**      **Z**

[illegible][illegible][illegible][illegible]

5.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

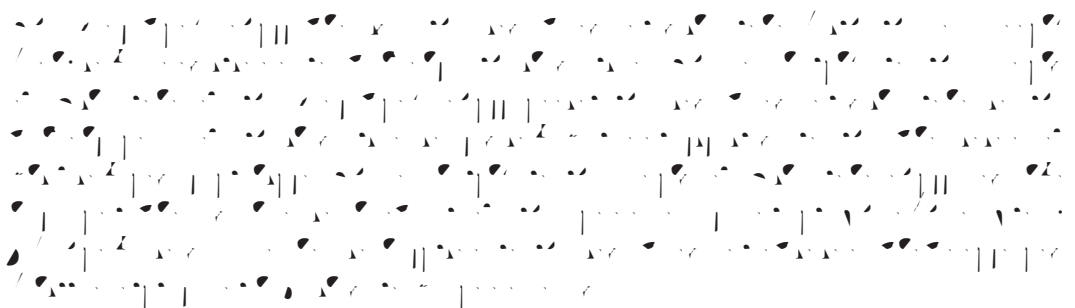
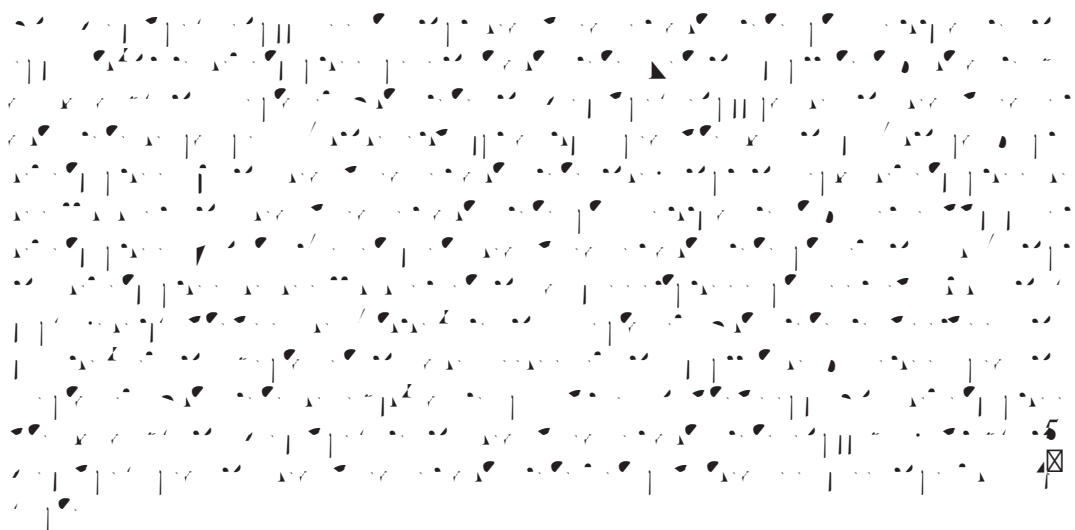
•  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$        $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$        $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$        $\frac{1}{2} \times \frac{1}{8} = \frac{1}{16}$        $\frac{1}{4} \times \frac{1}{8} = \frac{1}{32}$        $\frac{1}{8} \times \frac{1}{8} = \frac{1}{64}$

[illegible]

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.



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1. *Chlorophyll a* (Chl *a*) is the primary photosynthetic pigment in most plants and algae. It is a green pigment that absorbs light energy in the blue and red regions of the visible spectrum. Chl *a* is essential for the light-dependent reactions of photosynthesis, where it converts light energy into chemical energy.

[illegible]

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Andante

BWV 100, No. 1

[illegible][illegible]

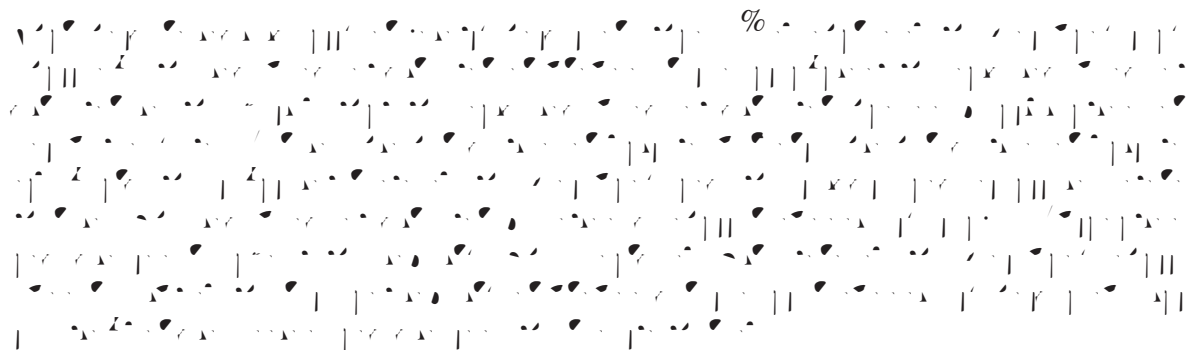
1.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$   
 2.  $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$   
 3.  $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$   
 4.  $\frac{1}{2} \times \frac{1}{8} = \frac{1}{16}$   
 5.  $\frac{1}{4} \times \frac{1}{8} = \frac{1}{32}$   
 6.  $\frac{1}{2} \times \frac{1}{16} = \frac{1}{32}$   
 7.  $\frac{1}{4} \times \frac{1}{16} = \frac{1}{64}$   
 8.  $\frac{1}{2} \times \frac{1}{32} = \frac{1}{64}$   
 9.  $\frac{1}{4} \times \frac{1}{32} = \frac{1}{128}$   
 10.  $\frac{1}{2} \times \frac{1}{64} = \frac{1}{128}$   
 11.  $\frac{1}{4} \times \frac{1}{128} = \frac{1}{256}$   
 12.  $\frac{1}{2} \times \frac{1}{256} = \frac{1}{256}$   
 13.  $\frac{1}{4} \times \frac{1}{256} = \frac{1}{512}$   
 14.  $\frac{1}{2} \times \frac{1}{512} = \frac{1}{512}$   
 15.  $\frac{1}{4} \times \frac{1}{512} = \frac{1}{1024}$   
 16.  $\frac{1}{2} \times \frac{1}{1024} = \frac{1}{1024}$   
 17.  $\frac{1}{4} \times \frac{1}{1024} = \frac{1}{2048}$   
 18.  $\frac{1}{2} \times \frac{1}{2048} = \frac{1}{2048}$   
 19.  $\frac{1}{4} \times \frac{1}{2048} = \frac{1}{4096}$   
 20.  $\frac{1}{2} \times \frac{1}{4096} = \frac{1}{4096}$   
 21.  $\frac{1}{4} \times \frac{1}{4096} = \frac{1}{8192}$   
 22.  $\frac{1}{2} \times \frac{1}{8192} = \frac{1}{8192}$   
 23.  $\frac{1}{4} \times \frac{1}{8192} = \frac{1}{16384}$   
 24.  $\frac{1}{2} \times \frac{1}{16384} = \frac{1}{16384}$   
 25.  $\frac{1}{4} \times \frac{1}{16384} = \frac{1}{32768}$   
 26.  $\frac{1}{2} \times \frac{1}{32768} = \frac{1}{32768}$   
 27.  $\frac{1}{4} \times \frac{1}{32768} = \frac{1}{65536}$   
 28.  $\frac{1}{2} \times \frac{1}{65536} = \frac{1}{65536}$   
 29.  $\frac{1}{4} \times \frac{1}{65536} = \frac{1}{131072}$   
 30.  $\frac{1}{2} \times \frac{1}{131072} = \frac{1}{131072}$   
 31.  $\frac{1}{4} \times \frac{1}{131072} = \frac{1}{262144}$   
 32.  $\frac{1}{2} \times \frac{1}{262144} = \frac{1}{262144}$   
 33.  $\frac{1}{4} \times \frac{1}{262144} = \frac{1}{524288}$   
 34.  $\frac{1}{2} \times \frac{1}{524288} = \frac{1}{524288}$   
 35.  $\frac{1}{4} \times \frac{1}{524288} = \frac{1}{1048576}$   
 36.  $\frac{1}{2} \times \frac{1}{1048576} = \frac{1}{1048576}$   
 37.  $\frac{1}{4} \times \frac{1}{1048576} = \frac{1}{2097152}$   
 38.  $\frac{1}{2} \times \frac{1}{2097152} = \frac{1}{2097152}$   
 39.  $\frac{1}{4} \times \frac{1}{2097152} = \frac{1}{4194304}$   
 40.  $\frac{1}{2} \times \frac{1}{4194304} = \frac{1}{4194304}$   
 41.  $\frac{1}{4} \times \frac{1}{4194304} = \frac{1}{8388608}$   
 42.  $\frac{1}{2} \times \frac{1}{8388608} = \frac{1}{8388608}$   
 43.  $\frac{1}{4} \times \frac{1}{8388608} = \frac{1}{16777216}$   
 44.  $\frac{1}{2} \times \frac{1}{16777216} = \frac{1}{16777216}$   
 45.  $\frac{1}{4} \times \frac{1}{16777216} = \frac{1}{33554432}$   
 46.  $\frac{1}{2} \times \frac{1}{33554432} = \frac{1}{33554432}$   
 47.  $\frac{1}{4} \times \frac{1}{33554432} = \frac{1}{67108864}$   
 48.  $\frac{1}{2} \times \frac{1}{67108864} = \frac{1}{67108864}$   
 49.  $\frac{1}{4} \times \frac{1}{67108864} = \frac{1}{134217728}$   
 50.  $\frac{1}{2} \times \frac{1}{134217728} = \frac{1}{134217728}$   
 51.  $\frac{1}{4} \times \frac{1}{134217728} = \frac{1}{268435456}$   
 52.  $\frac{1}{2} \times \frac{1}{268435456} = \frac{1}{268435456}$   
 53.  $\frac{1}{4} \times \frac{1}{268435456} = \frac{1}{536870912}$   
 54.  $\frac{1}{2} \times \frac{1}{536870912} = \frac{1}{536870912}$   
 55.  $\frac{1}{4} \times \frac{1}{536870912} = \frac{1}{1073741824}$   
 56.  $\frac{1}{2} \times \frac{1}{1073741824} = \frac{1}{1073741824}$   
 57.  $\frac{1}{4} \times \frac{1}{1073741824} = \frac{1}{2147483648}$   
 58.  $\frac{1}{2} \times \frac{1}{2147483648} = \frac{1}{2147483648}$   
 59.  $\frac{1}{4} \times \frac{1}{2147483648} = \frac{1}{4294967296}$   
 60.  $\frac{1}{2} \times \frac{1}{4294967296} = \frac{1}{4294967296}$   
 61.  $\frac{1}{4} \times \frac{1}{4294967296} = \frac{1}{8589934592}$   
 62.  $\frac{1}{2} \times \frac{1}{8589934592} = \frac{1}{8589934592}$   
 63.  $\frac{1}{4} \times \frac{1}{8589934592} = \frac{1}{17179869184}$   
 64.  $\frac{1}{2} \times \frac{1}{17179869184} = \frac{1}{17179869184}$   
 65.  $\frac{1}{4} \times \frac{1}{17179869184} = \frac{1}{34359738368}$   
 66.  $\frac{1}{2} \times \frac{1}{34359738368} = \frac{1}{34359738368}$   
 67.  $\frac{1}{4} \times \frac{1}{34359738368} = \frac{1}{68719476736}$   
 68.  $\frac{1}{2} \times \frac{1}{68719476736} = \frac{1}{68719476736}$   
 69.  $\frac{1}{4} \times \frac{1}{68719476736} = \frac{1}{137438953472}$   
 70.  $\frac{1}{2} \times \frac{1}{137438953472} = \frac{1}{137438953472}$   
 71.  $\frac{1}{4} \times \frac{1}{137438953472} = \frac{1}{274877906944}$   
 72.  $\frac{1}{2} \times \frac{1}{274877906944} = \frac{1}{274877906944}$   
 73.  $\frac{1}{4} \times \frac{1}{274877906944} = \frac{1}{549755813888}$   
 74.  $\frac{1}{2} \times \frac{1}{549755813888} = \frac{1}{549755813888}$   
 75.  $\frac{1}{4} \times \frac{1}{549755813888} = \frac{1}{1099511627776}$   
 76.  $\frac{1}{2} \times \frac{1}{1099511627776} = \frac{1}{1099511627776}$   
 77.  $\frac{1}{4} \times \frac{1}{1099511627776} = \frac{1}{2199023255552}$   
 78.  $\frac{1}{2} \times \frac{1}{2199023255552} = \frac{1}{2199023255552}$   
 79.  $\frac{1}{4} \times \frac{1}{2199023255552} = \frac{1}{4398046511104}$   
 80.  $\frac{1}{2} \times \frac{1}{4398046511104} = \frac{1}{4398046511104}$   
 81.  $\frac{1}{4} \times \frac{1}{4398046511104} = \frac{1}{8796093022208}$   
 82.  $\frac{1}{2} \times \frac{1}{8796093022208} = \frac{1}{8796093022208}$   
 83.  $\frac{1}{4} \times \frac{1}{8796093022208} = \frac{1}{17592186044416}$   
 84.  $\frac{1}{2} \times \frac{1}{17592186044416} = \frac{1}{175921$

1.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$   
 2.  $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$   
 3.  $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$   
 4.  $\frac{1}{2} \times \frac{1}{8} = \frac{1}{16}$   
 5.  $\frac{1}{4} \times \frac{1}{8} = \frac{1}{32}$   
 6.  $\frac{1}{8} \times \frac{1}{8} = \frac{1}{64}$   
 7.  $\frac{1}{2} \times \frac{1}{16} = \frac{1}{32}$   
 8.  $\frac{1}{4} \times \frac{1}{16} = \frac{1}{64}$   
 9.  $\frac{1}{8} \times \frac{1}{16} = \frac{1}{128}$   
 10.  $\frac{1}{2} \times \frac{1}{32} = \frac{1}{64}$   
 11.  $\frac{1}{4} \times \frac{1}{32} = \frac{1}{128}$   
 12.  $\frac{1}{8} \times \frac{1}{32} = \frac{1}{256}$   
 13.  $\frac{1}{2} \times \frac{1}{64} = \frac{1}{128}$   
 14.  $\frac{1}{4} \times \frac{1}{64} = \frac{1}{256}$   
 15.  $\frac{1}{8} \times \frac{1}{64} = \frac{1}{512}$   
 16.  $\frac{1}{2} \times \frac{1}{128} = \frac{1}{256}$   
 17.  $\frac{1}{4} \times \frac{1}{128} = \frac{1}{512}$   
 18.  $\frac{1}{8} \times \frac{1}{128} = \frac{1}{1024}$   
 19.  $\frac{1}{2} \times \frac{1}{256} = \frac{1}{512}$   
 20.  $\frac{1}{4} \times \frac{1}{256} = \frac{1}{1024}$   
 21.  $\frac{1}{8} \times \frac{1}{256} = \frac{1}{2048}$   
 22.  $\frac{1}{2} \times \frac{1}{512} = \frac{1}{1024}$   
 23.  $\frac{1}{4} \times \frac{1}{512} = \frac{1}{2048}$   
 24.  $\frac{1}{8} \times \frac{1}{512} = \frac{1}{4096}$   
 25.  $\frac{1}{2} \times \frac{1}{1024} = \frac{1}{512}$   
 26.  $\frac{1}{4} \times \frac{1}{1024} = \frac{1}{2048}$   
 27.  $\frac{1}{8} \times \frac{1}{1024} = \frac{1}{4096}$   
 28.  $\frac{1}{2} \times \frac{1}{2048} = \frac{1}{1024}$   
 29.  $\frac{1}{4} \times \frac{1}{2048} = \frac{1}{2048}$   
 30.  $\frac{1}{8} \times \frac{1}{2048} = \frac{1}{4096}$   
 31.  $\frac{1}{2} \times \frac{1}{4096} = \frac{1}{2048}$   
 32.  $\frac{1}{4} \times \frac{1}{4096} = \frac{1}{4096}$   
 33.  $\frac{1}{8} \times \frac{1}{4096} = \frac{1}{8192}$   
 34.  $\frac{1}{2} \times \frac{1}{8192} = \frac{1}{4096}$   
 35.  $\frac{1}{4} \times \frac{1}{8192} = \frac{1}{8192}$   
 36.  $\frac{1}{8} \times \frac{1}{8192} = \frac{1}{16384}$   
 37.  $\frac{1}{2} \times \frac{1}{16384} = \frac{1}{8192}$   
 38.  $\frac{1}{4} \times \frac{1}{16384} = \frac{1}{16384}$   
 39.  $\frac{1}{8} \times \frac{1}{16384} = \frac{1}{32768}$   
 40.  $\frac{1}{2} \times \frac{1}{32768} = \frac{1}{16384}$   
 41.  $\frac{1}{4} \times \frac{1}{32768} = \frac{1}{32768}$   
 42.  $\frac{1}{8} \times \frac{1}{32768} = \frac{1}{65536}$   
 43.  $\frac{1}{2} \times \frac{1}{65536} = \frac{1}{32768}$   
 44.  $\frac{1}{4} \times \frac{1}{65536} = \frac{1}{65536}$   
 45.  $\frac{1}{8} \times \frac{1}{65536} = \frac{1}{131072}$   
 46.  $\frac{1}{2} \times \frac{1}{131072} = \frac{1}{65536}$   
 47.  $\frac{1}{4} \times \frac{1}{131072} = \frac{1}{131072}$   
 48.  $\frac{1}{8} \times \frac{1}{131072} = \frac{1}{262144}$   
 49.  $\frac{1}{2} \times \frac{1}{262144} = \frac{1}{131072}$   
 50.  $\frac{1}{4} \times \frac{1}{262144} = \frac{1}{262144}$   
 51.  $\frac{1}{8} \times \frac{1}{262144} = \frac{1}{524288}$   
 52.  $\frac{1}{2} \times \frac{1}{524288} = \frac{1}{262144}$   
 53.  $\frac{1}{4} \times \frac{1}{524288} = \frac{1}{524288}$   
 54.  $\frac{1}{8} \times \frac{1}{524288} = \frac{1}{1048576}$   
 55.  $\frac{1}{2} \times \frac{1}{1048576} = \frac{1}{524288}$   
 56.  $\frac{1}{4} \times \frac{1}{1048576} = \frac{1}{1048576}$   
 57.  $\frac{1}{8} \times \frac{1}{1048576} = \frac{1}{2097152}$   
 58.  $\frac{1}{2} \times \frac{1}{2097152} = \frac{1}{1048576}$   
 59.  $\frac{1}{4} \times \frac{1}{2097152} = \frac{1}{2097152}$   
 60.  $\frac{1}{8} \times \frac{1}{2097152} = \frac{1}{4194304}$   
 61.  $\frac{1}{2} \times \frac{1}{4194304} = \frac{1}{2097152}$   
 62.  $\frac{1}{4} \times \frac{1}{4194304} = \frac{1}{4194304}$   
 63.  $\frac{1}{8} \times \frac{1}{4194304} = \frac{1}{8388608}$   
 64.  $\frac{1}{2} \times \frac{1}{8388608} = \frac{1}{4194304}$   
 65.  $\frac{1}{4} \times \frac{1}{8388608} = \frac{1}{8388608}$   
 66.  $\frac{1}{8} \times \frac{1}{8388608} = \frac{1}{16777216}$   
 67.  $\frac{1}{2} \times \frac{1}{16777216} = \frac{1}{8388608}$   
 68.  $\frac{1}{4} \times \frac{1}{16777216} = \frac{1}{16777216}$   
 69.  $\frac{1}{8} \times \frac{1}{16777216} = \frac{1}{33554432}$   
 70.  $\frac{1}{2} \times \frac{1}{33554432} = \frac{1}{16777216}$   
 71.  $\frac{1}{4} \times \frac{1}{33554432} = \frac{1}{33554432}$   
 72.  $\frac{1}{8} \times \frac{1}{33554432} = \frac{1}{67108864}$   
 73.  $\frac{1}{2} \times \frac{1}{67108864} = \frac{1}{33554432}$   
 74.  $\frac{1}{4} \times \frac{1}{67108864} = \frac{1}{67108864}$   
 75.  $\frac{1}{8} \times \frac{1}{67108864} = \frac{1}{134217728}$   
 76.  $\frac{1}{2} \times \frac{1}{134217728} = \frac{1}{67108864}$   
 77.  $\frac{1}{4} \times \frac{1}{134217728} = \frac{1}{134217728}$   
 78.  $\frac{1}{8} \times \frac{1}{134217728} = \frac{1}{268435456}$   
 79.  $\frac{1}{2} \times \frac{1}{268435456} = \frac{1}{134217728}$   
 80.  $\frac{1}{4} \times \frac{1}{268435456} = \frac{1}{268435456}$   
 81.  $\frac{1}{8} \times \frac{1}{268435456} = \frac{1}{536870912}$   
 82.  $\frac{1}{2} \times \frac{1}{536870912} = \frac{1}{268435456}$   
 83.  $\frac{1}{4} \times \frac{1}{536870912} = \frac{1}{536870912}$   
 84.  $\frac{1}{8} \times \frac{1}{536870912} = \frac{1}{1073741824}$   
 85.  $\frac{1}{2} \times \frac{1}{1073741824} = \frac{1}{536870912}$   
 86.  $\frac{1}{4} \times \frac{1}{1073741824} = \frac{1}{536870912}$   
 87.  $\frac{1}{8} \times \frac{1}{1073741824} = \frac{1}{1073741824}$   
 88.  $\frac{1}{2} \times \frac{1}{1073741824} = \frac{1}{536870912}$   
 89.  $\frac{1}{4} \times \frac{1}{1073741824} = \frac{1}{536870912}$   
 90.  $\frac{1}{8} \times \frac{1}{1073741824} = \frac{1}{1073741824}$   
 91.  $\frac{1}{2} \times \frac{1}{1073741824} = \frac{1}{53$

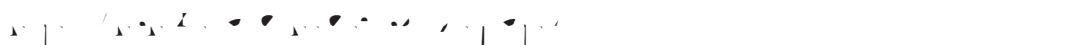
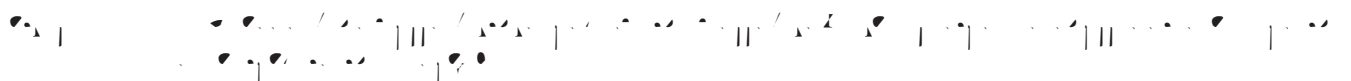
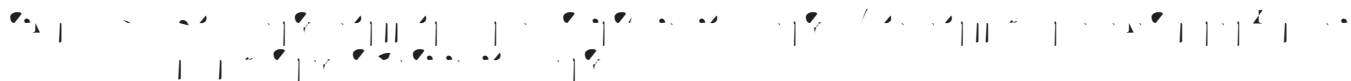
1.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$   
 2.  $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$   
 3.  $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$   
 4.  $\frac{1}{2} \times \frac{1}{8} = \frac{1}{16}$   
 5.  $\frac{1}{4} \times \frac{1}{8} = \frac{1}{32}$   
 6.  $\frac{1}{8} \times \frac{1}{8} = \frac{1}{64}$   
 7.  $\frac{1}{2} \times \frac{1}{16} = \frac{1}{32}$   
 8.  $\frac{1}{4} \times \frac{1}{16} = \frac{1}{64}$   
 9.  $\frac{1}{8} \times \frac{1}{16} = \frac{1}{128}$   
 10.  $\frac{1}{2} \times \frac{1}{32} = \frac{1}{64}$   
 11.  $\frac{1}{4} \times \frac{1}{32} = \frac{1}{128}$   
 12.  $\frac{1}{8} \times \frac{1}{32} = \frac{1}{256}$   
 13.  $\frac{1}{2} \times \frac{1}{64} = \frac{1}{128}$   
 14.  $\frac{1}{4} \times \frac{1}{64} = \frac{1}{256}$   
 15.  $\frac{1}{8} \times \frac{1}{64} = \frac{1}{512}$   
 16.  $\frac{1}{2} \times \frac{1}{128} = \frac{1}{256}$   
 17.  $\frac{1}{4} \times \frac{1}{128} = \frac{1}{512}$   
 18.  $\frac{1}{8} \times \frac{1}{128} = \frac{1}{1024}$   
 19.  $\frac{1}{2} \times \frac{1}{256} = \frac{1}{512}$   
 20.  $\frac{1}{4} \times \frac{1}{256} = \frac{1}{1024}$   
 21.  $\frac{1}{8} \times \frac{1}{256} = \frac{1}{2048}$   
 22.  $\frac{1}{2} \times \frac{1}{512} = \frac{1}{1024}$   
 23.  $\frac{1}{4} \times \frac{1}{512} = \frac{1}{2048}$   
 24.  $\frac{1}{8} \times \frac{1}{512} = \frac{1}{4096}$   
 25.  $\frac{1}{2} \times \frac{1}{1024} = \frac{1}{512}$   
 26.  $\frac{1}{4} \times \frac{1}{1024} = \frac{1}{2048}$   
 27.  $\frac{1}{8} \times \frac{1}{1024} = \frac{1}{4096}$   
 28.  $\frac{1}{2} \times \frac{1}{2048} = \frac{1}{1024}$   
 29.  $\frac{1}{4} \times \frac{1}{2048} = \frac{1}{512}$   
 30.  $\frac{1}{8} \times \frac{1}{2048} = \frac{1}{1024}$   
 31.  $\frac{1}{2} \times \frac{1}{4096} = \frac{1}{2048}$   
 32.  $\frac{1}{4} \times \frac{1}{4096} = \frac{1}{1024}$   
 33.  $\frac{1}{8} \times \frac{1}{4096} = \frac{1}{2048}$   
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 36.  $\frac{1}{8} \times \frac{1}{8192} = \frac{1}{4096}$   
 37.  $\frac{1}{2} \times \frac{1}{16384} = \frac{1}{8192}$   
 38.  $\frac{1}{4} \times \frac{1}{16384} = \frac{1}{4096}$   
 39.  $\frac{1}{8} \times \frac{1}{16384} = \frac{1}{8192}$   
 40.  $\frac{1}{2} \times \frac{1}{32768} = \frac{1}{16384}$   
 41.  $\frac{1}{4} \times \frac{1}{32768} = \frac{1}{8192}$   
 42.  $\frac{1}{8} \times \frac{1}{32768} = \frac{1}{16384}$   
 43.  $\frac{1}{2} \times \frac{1}{65536} = \frac{1}{32768}$   
 44.  $\frac{1}{4} \times \frac{1}{65536} = \frac{1}{16384}$   
 45.  $\frac{1}{8} \times \frac{1}{65536} = \frac{1}{32768}$   
 46.  $\frac{1}{2} \times \frac{1}{131072} = \frac{1}{65536}$   
 47.  $\frac{1}{4} \times \frac{1}{131072} = \frac{1}{32768}$   
 48.  $\frac{1}{8} \times \frac{1}{131072} = \frac{1}{65536}$   
 49.  $\frac{1}{2} \times \frac{1}{262144} = \frac{1}{131072}$   
 50.  $\frac{1}{4} \times \frac{1}{262144} = \frac{1}{65536}$   
 51.  $\frac{1}{8} \times \frac{1}{262144} = \frac{1}{131072}$   
 52.  $\frac{1}{2} \times \frac{1}{524288} = \frac{1}{262144}$   
 53.  $\frac{1}{4} \times \frac{1}{524288} = \frac{1}{131072}$   
 54.  $\frac{1}{8} \times \frac{1}{524288} = \frac{1}{262144}$   
 55.  $\frac{1}{2} \times \frac{1}{1048576} = \frac{1}{524288}$   
 56.  $\frac{1}{4} \times \frac{1}{1048576} = \frac{1}{262144}$   
 57.  $\frac{1}{8} \times \frac{1}{1048576} = \frac{1}{524288}$   
 58.  $\frac{1}{2} \times \frac{1}{2097152} = \frac{1}{1048576}$   
 59.  $\frac{1}{4} \times \frac{1}{2097152} = \frac{1}{524288}$   
 60.  $\frac{1}{8} \times \frac{1}{2097152} = \frac{1}{1048576}$   
 61.  $\frac{1}{2} \times \frac{1}{4194304} = \frac{1}{2097152}$   
 62.  $\frac{1}{4} \times \frac{1}{4194304} = \frac{1}{1048576}$   
 63.  $\frac{1}{8} \times \frac{1}{4194304} = \frac{1}{2097152}$   
 64.  $\frac{1}{2} \times \frac{1}{8388608} = \frac{1}{4194304}$   
 65.  $\frac{1}{4} \times \frac{1}{8388608} = \frac{1}{2097152}$   
 66.  $\frac{1}{8} \times \frac{1}{8388608} = \frac{1}{4194304}$   
 67.  $\frac{1}{2} \times \frac{1}{16777216} = \frac{1}{8388608}$   
 68.  $\frac{1}{4} \times \frac{1}{16777216} = \frac{1}{4194304}$   
 69.  $\frac{1}{8} \times \frac{1}{16777216} = \frac{1}{8388608}$   
 70.  $\frac{1}{2} \times \frac{1}{33554432} = \frac{1}{16777216}$   
 71.  $\frac{1}{4} \times \frac{1}{33554432} = \frac{1}{8388608}$   
 72.  $\frac{1}{8} \times \frac{1}{33554432} = \frac{1}{16777216}$   
 73.  $\frac{1}{2} \times \frac{1}{67108864} = \frac{1}{33554432}$   
 74.  $\frac{1}{4} \times \frac{1}{67108864} = \frac{1}{16777216}$   
 75.  $\frac{1}{8} \times \frac{1}{67108864} = \frac{1}{33554432}$   
 76.  $\frac{1}{2} \times \frac{1}{134217728} = \frac{1}{67108864}$   
 77.  $\frac{1}{4} \times \frac{1}{134217728} = \frac{1}{33554432}$   
 78.  $\frac{1}{8} \times \frac{1}{134217728} = \frac{1}{67108864}$   
 79.  $\frac{1}{2} \times \frac{1}{268435456} = \frac{1}{134217728}$   
 80.  $\frac{1}{4} \times \frac{1}{268435456} = \frac{1}{67108864}$   
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 91.  $\frac{1}{2} \times \frac{1}{4294967296} = \frac{1}{2147483648}$   
 92.  $\$

1. *Pharmaceutical industry* – The pharmaceutical industry is a major contributor to the U.S. economy, generating billions of dollars in revenue and creating thousands of jobs. However, it is also a major source of health care costs, with drug prices often being significantly higher than in other countries. The industry has been the subject of numerous lawsuits and investigations, particularly regarding off-invoice discounts and off-invoice discounts.






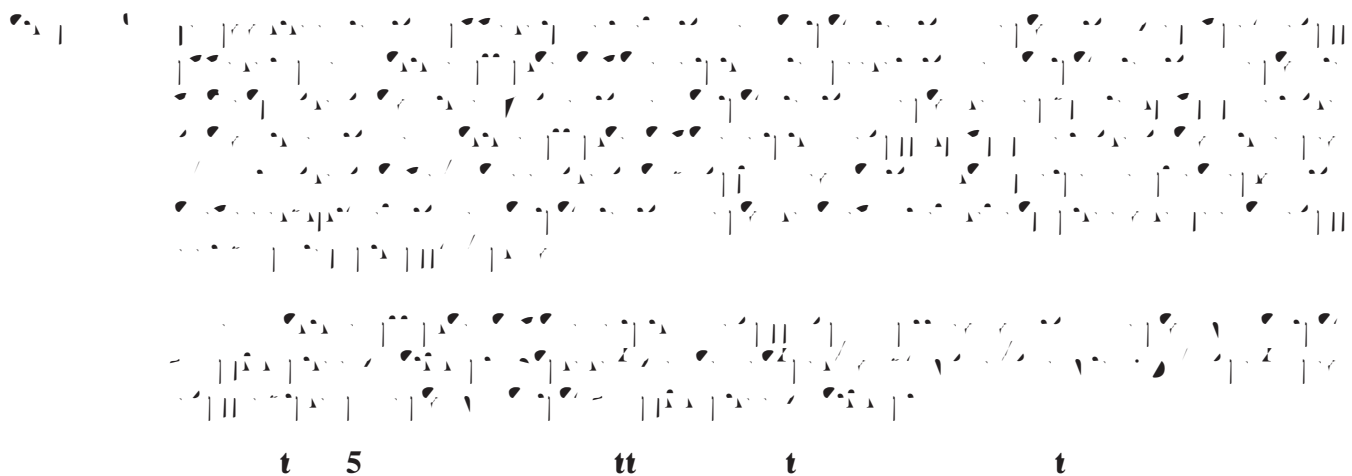
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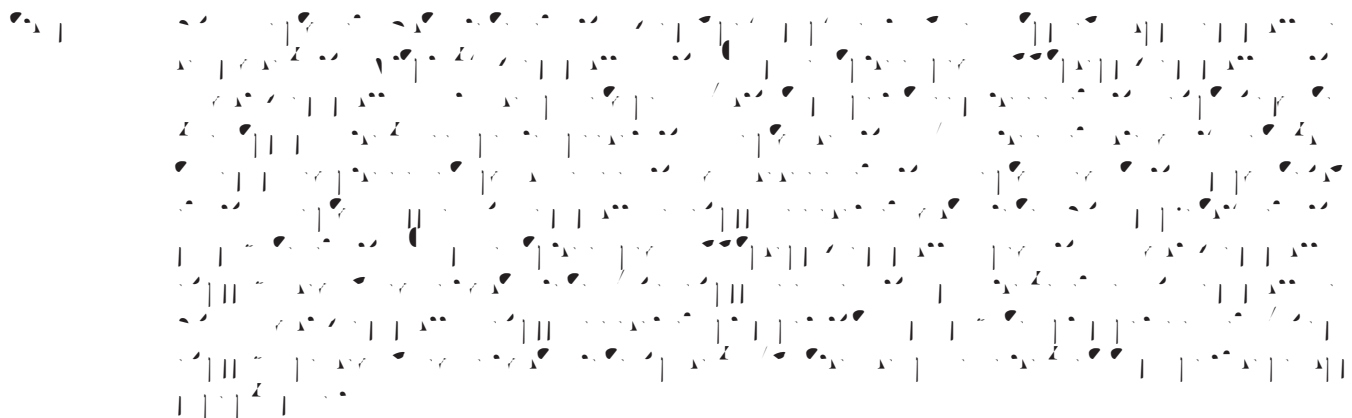
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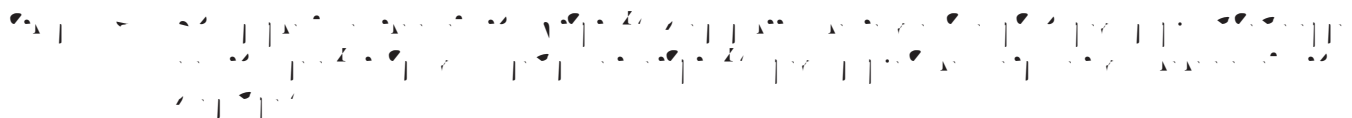




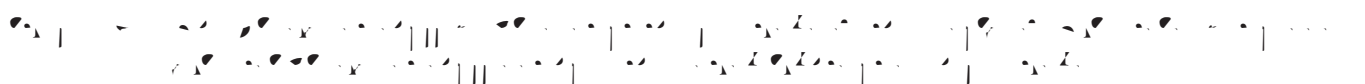
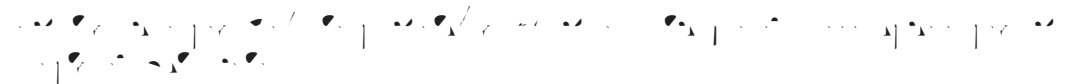
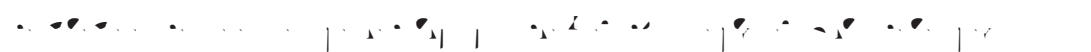
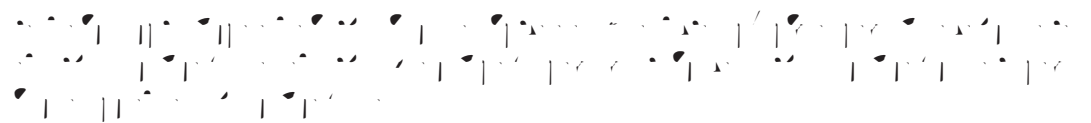
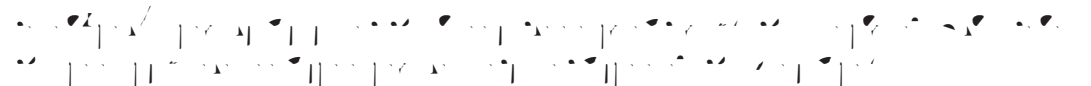
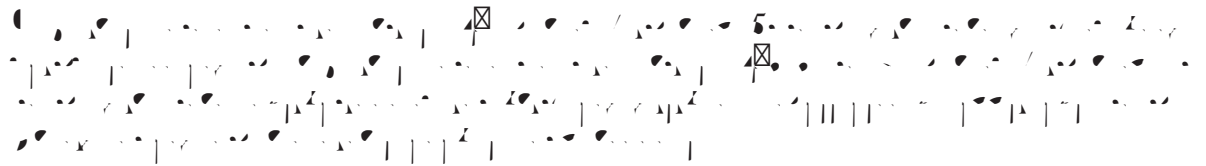


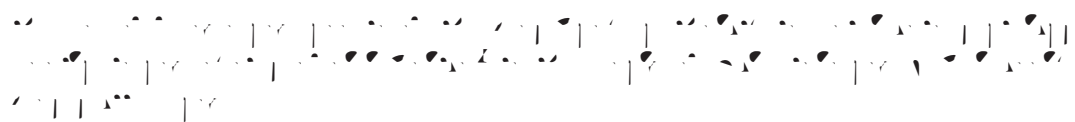
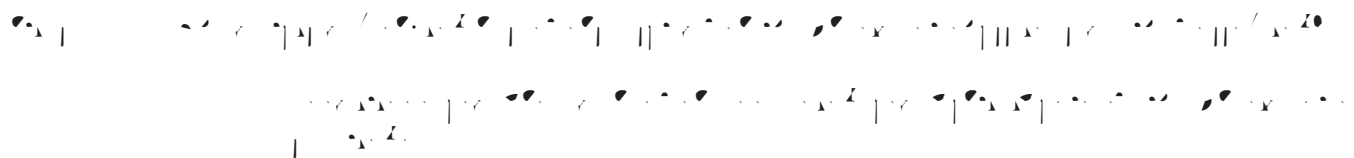
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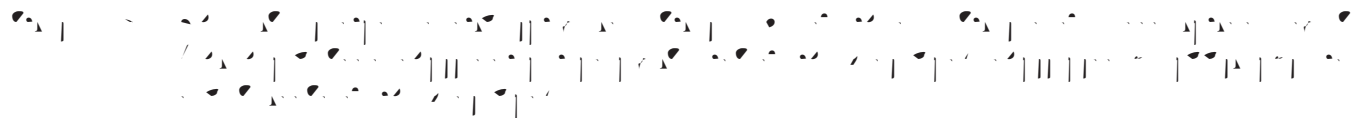
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t 8

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t 1



[illegible]

1. *Pharmaceutical industry* – The pharmaceutical industry is a major contributor to the U.S. economy, with sales of over \$200 billion in 2000. The industry is characterized by high research and development costs, long time to market, and high barriers to entry. The industry is also heavily regulated by the FDA.

*(The following are the lyrics of the song "I Am a Soldier," which was written by the author and performed by the students at the time of the performance.)*

1. *Pharmaceutical industry* – The pharmaceutical industry is a major contributor to the U.S. economy, with sales of over \$200 billion in 2000. The industry is characterized by high R&D costs, long development times, and high barriers to entry. The industry is also heavily regulated, with the FDA playing a central role in drug approval and oversight.

2. *Healthcare providers* – Healthcare providers, including hospitals, clinics, and physicians, are the primary users of pharmaceuticals. They are responsible for diagnosing and treating patients, and for ensuring that patients receive the most effective and safe treatment available.

3. *Insurance companies* – Insurance companies, including Medicare, Medicaid, and private insurers, play a significant role in the pharmaceutical market. They are responsible for paying for the cost of drugs, and for negotiating with pharmaceutical companies to secure the best possible prices.

4. *Patients* – Patients are the ultimate beneficiaries of pharmaceuticals. They are responsible for paying for the cost of their medications, and for following the instructions of their healthcare providers.

5. *Regulatory agencies* – Regulatory agencies, including the FDA, the DEA, and the HHS, are responsible for overseeing the pharmaceutical industry and ensuring that drugs are safe and effective.

6. *Pharmaceutical associations* – Pharmaceutical associations, including the Pharmaceutical Research and Manufacturers of America (PhRMA), represent the interests of the pharmaceutical industry and advocate for policies that support the industry's growth and innovation.

7. *Academic institutions* – Academic institutions, including universities and research centers, are involved in the discovery and development of new drugs. They often collaborate with pharmaceutical companies to bring new drugs to market.

8. *Biotechnology companies* – Biotechnology companies, including Genentech and Amgen, are increasingly involved in the pharmaceutical industry. They are developing new drugs using advanced biotechnology techniques, and are often partnering with pharmaceutical companies to commercialize their products.

9. *Generic drug manufacturers* – Generic drug manufacturers produce generic versions of brand-name drugs. They play an important role in the pharmaceutical market by providing affordable alternatives to brand-name drugs.

10. *Pharmaceutical distributors* – Pharmaceutical distributors, including wholesalers and mail-order companies, are responsible for distributing drugs to healthcare providers and patients.

11. *Pharmaceutical retailers* – Pharmaceutical retailers, including pharmacies and drug stores, are responsible for selling drugs to patients.

12. *Pharmaceutical manufacturers* – Pharmaceutical manufacturers are responsible for producing drugs. They often have specialized facilities and equipment for the production of different types of drugs.

13. *Pharmaceutical sales and marketing* – Pharmaceutical sales and marketing departments are responsible for promoting drugs to healthcare providers and patients. They often use a variety of tactics, including direct sales, advertising, and educational programs.

14. *Pharmaceutical finance* – Pharmaceutical finance departments are responsible for managing the financial aspects of the pharmaceutical industry. They often work closely with investment banks and other financial institutions.

15. *Pharmaceutical legal* – Pharmaceutical legal departments are responsible for ensuring that the pharmaceutical industry complies with applicable laws and regulations. They often work closely with government agencies and courts.

16. *Pharmaceutical operations* – Pharmaceutical operations departments are responsible for managing the day-to-day activities of the pharmaceutical industry. They often work closely with manufacturing and distribution departments.

17. *Pharmaceutical research and development* – Pharmaceutical research and development departments are responsible for discovering and developing new drugs. They often work closely with academic institutions and biotechnology companies.

18. *Pharmaceutical quality control* – Pharmaceutical quality control departments are responsible for ensuring that drugs are produced to the highest quality standards. They often work closely with manufacturing and distribution departments.

19. *Pharmaceutical regulatory affairs* – Pharmaceutical regulatory affairs departments are responsible for ensuring that drugs are approved by the FDA and other regulatory agencies. They often work closely with government agencies and courts.

20. *Pharmaceutical supply chain management* – Pharmaceutical supply chain management departments are responsible for managing the flow of drugs from manufacturers to patients. They often work closely with manufacturing, distribution, and retail departments.

21. *Pharmaceutical information technology* – Pharmaceutical information technology departments are responsible for managing the information systems of the pharmaceutical industry. They often work closely with other departments to improve the efficiency of the industry.

22. *Pharmaceutical human resources* – Pharmaceutical human resources departments are responsible for managing the workforce of the pharmaceutical industry. They often work closely with other departments to attract and retain top talent.

23. *Pharmaceutical environmental health and safety* – Pharmaceutical environmental health and safety departments are responsible for ensuring that the pharmaceutical industry complies with environmental and safety regulations. They often work closely with government agencies and courts.

24. *Pharmaceutical corporate social responsibility* – Pharmaceutical corporate social responsibility departments are responsible for managing the social and environmental impact of the pharmaceutical industry. They often work closely with other departments to promote the industry's positive impact on society.

25. *Pharmaceutical public relations* – Pharmaceutical public relations departments are responsible for managing the public image of the pharmaceutical industry. They often work closely with other departments to promote the industry's positive image.

26. *Pharmaceutical government relations* – Pharmaceutical government relations departments are responsible for managing the relationship between the pharmaceutical industry and government. They often work closely with government agencies and courts.

27. *Pharmaceutical international relations* – Pharmaceutical international relations departments are responsible for managing the relationship between the pharmaceutical industry and other countries. They often work closely with government agencies and courts.

28. *Pharmaceutical intellectual property* – Pharmaceutical intellectual property departments are responsible for managing the intellectual property of the pharmaceutical industry. They often work closely with legal and regulatory departments.

29. *Pharmaceutical compliance* – Pharmaceutical compliance departments are responsible for ensuring that the pharmaceutical industry complies with applicable laws and regulations. They often work closely with legal and regulatory departments.

30. *Pharmaceutical ethics* – Pharmaceutical ethics departments are responsible for ensuring that the pharmaceutical industry adheres to ethical principles. They often work closely with legal and regulatory departments.

31. *Pharmaceutical sustainability* – Pharmaceutical sustainability departments are responsible for ensuring that the pharmaceutical industry is sustainable. They often work closely with other departments to promote the industry's long-term viability.

32. *Pharmaceutical innovation* – Pharmaceutical innovation departments are responsible for promoting innovation in the pharmaceutical industry. They often work closely with research and development departments.

33. *Pharmaceutical market research* – Pharmaceutical market research departments are responsible for conducting research on the pharmaceutical market. They often work closely with sales and marketing departments.

34. *Pharmaceutical data management* – Pharmaceutical data management departments are responsible for managing the data of the pharmaceutical industry. They often work closely with information technology departments.

35. *Pharmaceutical analytics* – Pharmaceutical analytics departments are responsible for analyzing the data of the pharmaceutical industry. They often work closely with information technology departments.

36. *Pharmaceutical consulting* – Pharmaceutical consulting departments are responsible for providing consulting services to the pharmaceutical industry. They often work closely with other departments to improve the industry's performance.

37. *Pharmaceutical training* – Pharmaceutical training departments are responsible for providing training to the workforce of the pharmaceutical industry. They often work closely with human resources departments.

38. *Pharmaceutical recruitment* – Pharmaceutical recruitment departments are responsible for recruiting talent for the pharmaceutical industry. They often work closely with human resources departments.

39. *Pharmaceutical compensation* – Pharmaceutical compensation departments are responsible for managing the compensation of the workforce of the pharmaceutical industry. They often work closely with human resources departments.

40. *Pharmaceutical benefits* – Pharmaceutical benefits departments are responsible for managing the benefits of the workforce of the pharmaceutical industry. They often work closely with human resources departments.

41. *Pharmaceutical employee relations* – Pharmaceutical employee relations departments are responsible for managing the relationship between the pharmaceutical industry and its employees. They often work closely with human resources departments.

42. *Pharmaceutical labor relations* – Pharmaceutical labor relations departments are responsible for managing the relationship between the pharmaceutical industry and labor unions. They often work closely with human resources departments.

43. *Pharmaceutical diversity and inclusion* – Pharmaceutical diversity and inclusion departments are responsible for promoting diversity and inclusion in the pharmaceutical industry. They often work closely with human resources departments.

44. *Pharmaceutical community relations* – Pharmaceutical community relations departments are responsible for managing the relationship between the pharmaceutical industry and the community. They often work closely with other departments to promote the industry's positive impact on society.

45. *Pharmaceutical philanthropy* – Pharmaceutical philanthropy departments are responsible for managing the philanthropic activities of the pharmaceutical industry. They often work closely with other departments to promote the industry's positive impact on society.

46. *Pharmaceutical corporate governance* – Pharmaceutical corporate governance departments are responsible for managing the governance of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

47. *Pharmaceutical risk management* – Pharmaceutical risk management departments are responsible for managing the risk of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

48. *Pharmaceutical crisis management* – Pharmaceutical crisis management departments are responsible for managing the crisis of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

49. *Pharmaceutical business development* – Pharmaceutical business development departments are responsible for managing the business development of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

50. *Pharmaceutical strategic planning* – Pharmaceutical strategic planning departments are responsible for managing the strategic planning of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

51. *Pharmaceutical financial planning* – Pharmaceutical financial planning departments are responsible for managing the financial planning of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

52. *Pharmaceutical tax management* – Pharmaceutical tax management departments are responsible for managing the tax management of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

53. *Pharmaceutical accounting* – Pharmaceutical accounting departments are responsible for managing the accounting of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

54. *Pharmaceutical auditing* – Pharmaceutical auditing departments are responsible for managing the auditing of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

55. *Pharmaceutical internal control* – Pharmaceutical internal control departments are responsible for managing the internal control of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

56. *Pharmaceutical information security* – Pharmaceutical information security departments are responsible for managing the information security of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

57. *Pharmaceutical cybersecurity* – Pharmaceutical cybersecurity departments are responsible for managing the cybersecurity of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

58. *Pharmaceutical data security* – Pharmaceutical data security departments are responsible for managing the data security of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

59. *Pharmaceutical privacy* – Pharmaceutical privacy departments are responsible for managing the privacy of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

60. *Pharmaceutical consumer protection* – Pharmaceutical consumer protection departments are responsible for managing the consumer protection of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

61. *Pharmaceutical product safety* – Pharmaceutical product safety departments are responsible for managing the product safety of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

62. *Pharmaceutical quality assurance* – Pharmaceutical quality assurance departments are responsible for managing the quality assurance of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

63. *Pharmaceutical manufacturing* – Pharmaceutical manufacturing departments are responsible for managing the manufacturing of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

64. *Pharmaceutical distribution* – Pharmaceutical distribution departments are responsible for managing the distribution of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

65. *Pharmaceutical retail* – Pharmaceutical retail departments are responsible for managing the retail of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

66. *Pharmaceutical sales* – Pharmaceutical sales departments are responsible for managing the sales of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

67. *Pharmaceutical marketing* – Pharmaceutical marketing departments are responsible for managing the marketing of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

68. *Pharmaceutical advertising* – Pharmaceutical advertising departments are responsible for managing the advertising of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

69. *Pharmaceutical promotion* – Pharmaceutical promotion departments are responsible for managing the promotion of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

70. *Pharmaceutical public relations* – Pharmaceutical public relations departments are responsible for managing the public relations of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

71. *Pharmaceutical government relations* – Pharmaceutical government relations departments are responsible for managing the government relations of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

72. *Pharmaceutical international relations* – Pharmaceutical international relations departments are responsible for managing the international relations of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

73. *Pharmaceutical intellectual property* – Pharmaceutical intellectual property departments are responsible for managing the intellectual property of the pharmaceutical industry. They often work closely with other departments to ensure the industry's long-term viability.

74. *Pharmaceutical compliance* – Pharmaceutical compliance

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1. *Chlorophyll a* (Chl *a*) is the primary photosynthetic pigment in most plants and algae. It is responsible for capturing light energy and converting it into chemical energy through the process of photosynthesis. Chl *a* is a green pigment and is found in the chloroplasts of plant cells.

2. *Chlorophyll b* (Chl *b*) is an accessory pigment that works in conjunction with Chl *a* to capture light energy. It is a yellow-green pigment and is found in the chloroplasts of plant cells. Chl *b* helps to broaden the range of light wavelengths that can be absorbed by the photosynthetic system.

3. *Carotenoids* are a group of pigments that include carotenes and xanthophylls. They are responsible for capturing light energy and transferring it to Chl *a* for use in photosynthesis. Carotenoids are found in the chloroplasts of plant cells and are responsible for the yellow, orange, and red colors seen in autumn foliage.

4. *Xanthophylls* are a type of carotenoid that are involved in the light-harvesting process. They are responsible for capturing light energy and transferring it to Chl *a*. Xanthophylls are found in the chloroplasts of plant cells and are responsible for the yellow color seen in autumn foliage.

5. *Anthocyanins* are a group of pigments that are responsible for the red, purple, and blue colors seen in many plants. They are not involved in photosynthesis but are found in the vacuoles of plant cells. Anthocyanins are responsible for the color changes seen in autumn foliage.

1.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$   
 2.  $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$   
 3.  $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$   
 4.  $\frac{1}{2} \times \frac{1}{8} = \frac{1}{16}$   
 5.  $\frac{1}{4} \times \frac{1}{8} = \frac{1}{32}$   
 6.  $\frac{1}{2} \times \frac{1}{16} = \frac{1}{32}$   
 7.  $\frac{1}{4} \times \frac{1}{16} = \frac{1}{64}$   
 8.  $\frac{1}{2} \times \frac{1}{32} = \frac{1}{64}$   
 9.  $\frac{1}{4} \times \frac{1}{32} = \frac{1}{128}$   
 10.  $\frac{1}{2} \times \frac{1}{64} = \frac{1}{128}$   
 11.  $\frac{1}{4} \times \frac{1}{128} = \frac{1}{256}$   
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 31.  $\frac{1}{4} \times \frac{1}{131072} = \frac{1}{262144}$   
 32.  $\frac{1}{2} \times \frac{1}{262144} = \frac{1}{262144}$   
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 41.  $\frac{1}{4} \times \frac{1}{4194304} = \frac{1}{8388608}$   
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 45.  $\frac{1}{4} \times \frac{1}{16777216} = \frac{1}{33554432}$   
 46.  $\frac{1}{2} \times \frac{1}{33554432} = \frac{1}{33554432}$   
 47.  $\frac{1}{4} \times \frac{1}{33554432} = \frac{1}{67108864}$   
 48.  $\frac{1}{2} \times \frac{1}{67108864} = \frac{1}{67108864}$   
 49.  $\frac{1}{4} \times \frac{1}{67108864} = \frac{1}{134217728}$   
 50.  $\frac{1}{2} \times \frac{1}{134217728} = \frac{1}{134217728}$   
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 52.  $\frac{1}{2} \times \frac{1}{268435456} = \frac{1}{268435456}$   
 53.  $\frac{1}{4} \times \frac{1}{268435456} = \frac{1}{536870912}$   
 54.  $\frac{1}{2} \times \frac{1}{536870912} = \frac{1}{536870912}$   
 55.  $\frac{1}{4} \times \frac{1}{536870912} = \frac{1}{1073741824}$   
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 58.  $\frac{1}{2} \times \frac{1}{2147483648} = \frac{1}{2147483648}$   
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 71.  $\frac{1}{4} \times \frac{1}{137438953472} = \frac{1}{274877906944}$   
 72.  $\frac{1}{2} \times \frac{1}{274877906944} = \frac{1}{274877906944}$   
 73.  $\frac{1}{4} \times \frac{1}{274877906944} = \frac{1}{549755813888}$   
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 75.  $\frac{1}{4} \times \frac{1}{549755813888} = \frac{1}{1099511627776}$   
 76.  $\frac{1}{2} \times \frac{1}{1099511627776} = \frac{1}{1099511627776}$   
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 78.  $\frac{1}{2} \times \frac{1}{2199023255552} = \frac{1}{2199023255552}$   
 79.  $\frac{1}{4} \times \frac{1}{2199023255552} = \frac{1}{4398046511104}$   
 80.  $\frac{1}{2} \times \frac{1}{4398046511104} = \frac{1}{4398046511104}$   
 81.  $\frac{1}{4} \times \frac{1}{4398046511104} = \frac{1}{8796093022208}$   
 82.  $\frac{1}{2} \times \frac{1}{8796093022208} = \frac{1}{8796093022208}$   
 83.  $\frac{1}{4} \times \frac{1}{8796093022208} = \frac{1}{17592186044416}$   
 84.  $\frac{1}{2} \times \frac{1}{17592186044416} = \frac{1}{175921$



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1. *Chlorophyll *a** (mg/g) =  $\frac{1000 \times \text{Absorbance at } 663 \text{ nm}}{23.04 \times \text{Volume of extract (ml)}}$   
 2. *Chlorophyll *b** (mg/g) =  $\frac{1000 \times \text{Absorbance at } 646 \text{ nm}}{22.9 \times \text{Volume of extract (ml)}}$   
 3. *Total Chlorophyll* (mg/g) =  $\frac{1000 \times \text{Absorbance at } 663 \text{ nm} \times 2.26 + \text{Absorbance at } 646 \text{ nm} \times 2.59}{\text{Volume of extract (ml)}}$   
 4. *Carotenoids* (mg/g) =  $\frac{1000 \times \text{Absorbance at } 480 \text{ nm}}{22.7 \times \text{Volume of extract (ml)}}$

A large, dense grid of small, stylized black and white icons, possibly representing a data visualization or a complex pattern. The icons are arranged in a regular, repeating pattern across the entire page, creating a textured, almost abstract background. Each icon appears to be a small, simplified representation of a human figure or a similar shape, oriented in various directions. The overall effect is a high-contrast, monochromatic composition that fills the entire frame.

[illegible]

**The Little Boat** (No. 100)

Andante

1.  $\text{C}_4$   $\text{D}_4$   $\text{E}_4$   $\text{F}_4$   $\text{G}_4$   $\text{A}_4$   $\text{B}_4$   $\text{C}_5$   $\text{B}_4$   $\text{A}_4$   $\text{G}_4$   $\text{F}_4$   $\text{E}_4$   $\text{D}_4$   $\text{C}_4$

2.  $\text{C}_4$   $\text{D}_4$   $\text{E}_4$   $\text{F}_4$   $\text{G}_4$   $\text{A}_4$   $\text{B}_4$   $\text{C}_5$   $\text{B}_4$   $\text{A}_4$   $\text{G}_4$   $\text{F}_4$   $\text{E}_4$   $\text{D}_4$   $\text{C}_4$

3.  $\text{C}_4$   $\text{D}_4$   $\text{E}_4$   $\text{F}_4$   $\text{G}_4$   $\text{A}_4$   $\text{B}_4$   $\text{C}_5$   $\text{B}_4$   $\text{A}_4$   $\text{G}_4$   $\text{F}_4$   $\text{E}_4$   $\text{D}_4$   $\text{C}_4$

4.  $\text{C}_4$   $\text{D}_4$   $\text{E}_4$   $\text{F}_4$   $\text{G}_4$   $\text{A}_4$   $\text{B}_4$   $\text{C}_5$   $\text{B}_4$   $\text{A}_4$   $\text{G}_4$   $\text{F}_4$   $\text{E}_4$   $\text{D}_4$   $\text{C}_4$

5.  $\text{C}_4$   $\text{D}_4$   $\text{E}_4$   $\text{F}_4$   $\text{G}_4$   $\text{A}_4$   $\text{B}_4$   $\text{C}_5$   $\text{B}_4$   $\text{A}_4$   $\text{G}_4$   $\text{F}_4$   $\text{E}_4$   $\text{D}_4$   $\text{C}_4$

6.  $\text{C}_4$   $\text{D}_4$   $\text{E}_4$   $\text{F}_4$   $\text{G}_4$   $\text{A}_4$   $\text{B}_4$   $\text{C}_5$   $\text{B}_4$   $\text{A}_4$   $\text{G}_4$   $\text{F}_4$   $\text{E}_4$   $\text{D}_4$   $\text{C}_4$

7.  $\text{C}_4$   $\text{D}_4$   $\text{E}_4$   $\text{F}_4$   $\text{G}_4$   $\text{A}_4$   $\text{B}_4$   $\text{C}_5$   $\text{B}_4$   $\text{A}_4$   $\text{G}_4$   $\text{F}_4$   $\text{E}_4$   $\text{D}_4$   $\text{C}_4$

8.  $\text{C}_4$   $\text{D}_4$   $\text{E}_4$   $\text{F}_4$   $\text{G}_4$   $\text{A}_4$   $\text{B}_4$   $\text{C}_5$   $\text{B}_4$   $\text{A}_4$   $\text{G}_4$   $\text{F}_4$   $\text{E}_4$   $\text{D}_4$   $\text{C}_4$

9.  $\text{C}_4$   $\text{D}_4$   $\text{E}_4$   $\text{F}_4$   $\text{G}_4$   $\text{A}_4$   $\text{B}_4$   $\text{C}_5$   $\text{B}_4$   $\text{A}_4$   $\text{G}_4$   $\text{F}_4$   $\text{E}_4$   $\text{D}_4$   $\text{C}_4$

10.  $\text{C}_4$   $\text{D}_4$   $\text{E}_4$   $\text{F}_4$   $\text{G}_4$   $\text{A}_4$   $\text{B}_4$   $\text{C}_5$   $\text{B}_4$   $\text{A}_4$   $\text{G}_4$   $\text{F}_4$   $\text{E}_4$   $\text{D}_4$   $\text{C}_4$

[illegible]

1.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$   
 2.  $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$   
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 5.  $\frac{1}{4} \times \frac{1}{8} = \frac{1}{32}$   
 6.  $\frac{1}{2} \times \frac{1}{16} = \frac{1}{32}$   
 7.  $\frac{1}{4} \times \frac{1}{16} = \frac{1}{64}$   
 8.  $\frac{1}{2} \times \frac{1}{32} = \frac{1}{64}$   
 9.  $\frac{1}{4} \times \frac{1}{32} = \frac{1}{128}$   
 10.  $\frac{1}{2} \times \frac{1}{64} = \frac{1}{128}$   
 11.  $\frac{1}{4} \times \frac{1}{128} = \frac{1}{256}$   
 12.  $\frac{1}{2} \times \frac{1}{256} = \frac{1}{256}$   
 13.  $\frac{1}{4} \times \frac{1}{256} = \frac{1}{512}$   
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 17.  $\frac{1}{4} \times \frac{1}{1024} = \frac{1}{2048}$   
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 19.  $\frac{1}{4} \times \frac{1}{2048} = \frac{1}{4096}$   
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 21.  $\frac{1}{4} \times \frac{1}{4096} = \frac{1}{8192}$   
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 25.  $\frac{1}{4} \times \frac{1}{16384} = \frac{1}{32768}$   
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 27.  $\frac{1}{4} \times \frac{1}{32768} = \frac{1}{65536}$   
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 31.  $\frac{1}{4} \times \frac{1}{131072} = \frac{1}{262144}$   
 32.  $\frac{1}{2} \times \frac{1}{262144} = \frac{1}{262144}$   
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 36.  $\frac{1}{2} \times \frac{1}{1048576} = \frac{1}{1048576}$   
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 43.  $\frac{1}{4} \times \frac{1}{8388608} = \frac{1}{16777216}$   
 44.  $\frac{1}{2} \times \frac{1}{16777216} = \frac{1}{16777216}$   
 45.  $\frac{1}{4} \times \frac{1}{16777216} = \frac{1}{33554432}$   
 46.  $\frac{1}{2} \times \frac{1}{33554432} = \frac{1}{33554432}$   
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 56.  $\frac{1}{2} \times \frac{1}{1073741824} = \frac{1}{1073741824}$   
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 58.  $\frac{1}{2} \times \frac{1}{2147483648} = \frac{1}{2147483648}$   
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 66.  $\frac{1}{2} \times \frac{1}{34359738368} = \frac{1}{34359738368}$   
 67.  $\frac{1}{4} \times \frac{1}{34359738368} = \frac{1}{68719476736}$   
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 83.  $\frac{1}{4} \times \frac{1}{8796093022208} = \frac{1}{17592186044416}$   
 84.  $\frac{1}{2} \times \frac{1}{17592186044416} = \frac{1}{175921$



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A large grid of 100 small line drawings of various insects, including beetles, flies, bees, and butterflies, arranged in 10 rows and 10 columns.

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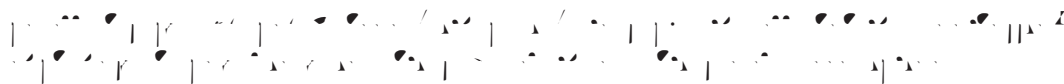
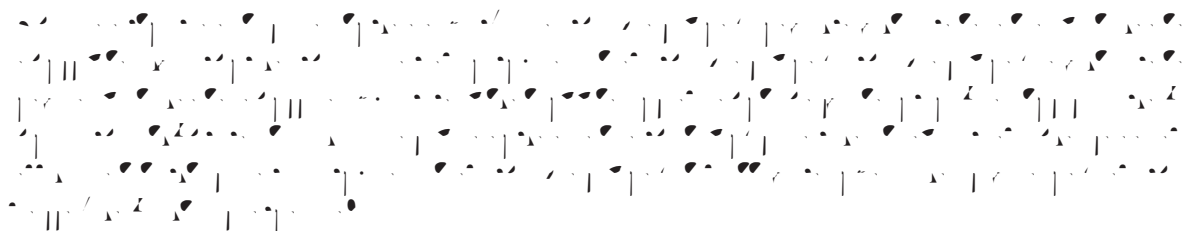
*Journal of Management Education* 36(7) 809–824  
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•  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$        $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$        $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$        $\frac{1}{2} \times \frac{1}{8} = \frac{1}{16}$        $\frac{1}{4} \times \frac{1}{8} = \frac{1}{32}$        $\frac{1}{8} \times \frac{1}{8} = \frac{1}{64}$

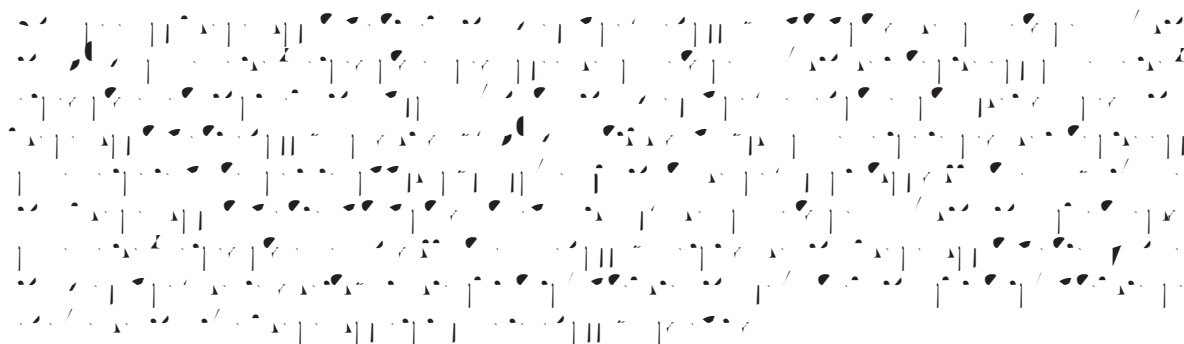
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D386 | E386 F386 G386 A386 | B386 C387 D387 E387 | F387 G387 A387 B387 | C388 D388 E388 F388 | G388 A388 B388 C389 | D389 E389 F389 G389 | A389 B389 C390 D390 | E390 F390 G390 A390 | B390 C391 D391 E391 | F391 G391 A391 B391 | C392 D392 E392 F392 | G392 A392 B392 C393 | D393 E393 F393 G393 | A393 B393 C394 D394 | E394 F394 G394 A394 | B394 C395 D395 E395 | F395 G395 A395 B395 | C396 D396 E396 F396 | G396 A396 B396 C397 | D397 E397 F397 G397 | A397 B397 C398 D398 | E398 F398 G398 A398 | B398 C399 D399 E399 | F399 G399 A399 B399 | C400 D400 E400 F400 | G400 A400 B400 C401 | D401 E401 F401 G401 | A401 B401 C402 D402 | E402 F402 G402 A402 | B402 C403 D403 E403 | F403 G403 A403 B403 | C404 D404 E404 F404 | G404 A404 B404 C405 | D405 E405 F405 G405 | A405 B405 C406 D406 | E406 F406 G406 A406 | B406 C407 D407 E407 | F407 G407 A407 B407 | C408 D408 E408 F408 | G408 A408 B408 C409 | D409 E409 F409 G409 | A409 B409 C410 D410 | E410 F410 G410 A410 | B410 C411 D411 E411 | F411 G411 A411 B411 | C412 D412 E412 F412 | G412 A412 B412 C413 | D413 E413 F413 G413 | A413 B413 C414 D414 | E414 F414 G414 A414 | B414 C415 D415 E415 | F415 G415 A415 B415 | C416 D416 E416 F416 | G416 A416 B416 C417 | D417 E417 F417 G417 | A417 B417 C418 D418 | E418 F418 G418 A418 | B418 C419 D419 E419 | F419 G419 A419 B419 | C420 D420 E420 F420 | G420 A420 B420 C421 | D421 E421 F421 G421 | A421 B421 C422 D422 | E422 F422 G422 A422 | B422 C423 D423 E423 | F423 G423 A423 B423 | C424 D424 E424 F424 | G424 A424 B424 C425 | D425 E425 F425 G425 | A425 B425 C426 D426 | E426 F426 G426 A426 | B426 C427 D427 E427 | F427 G427 A427 B427 | C428 D428 E428 F428 | G428 A428 B428 C429 | D429 E429 F429 G429 | A429 B429 C430 D430 | E430 F430 G430 A430 | B430 C431 D431 E431 | F431 G431 A431 B431 | C432 D432 E432 F432 | G432 A432 B432 C433 | D433 E433 F433 G433 | A433 B433 C434 D434 | E434 F434 G434 A434 | B434 C435 D435 E435 | F435 G435 A435 B435 | C436 D436 E436 F436 | G436 A436 B436 C437 | D437 E437 F437 G437 | A437 B437 C438 D438 | E438 F438 G438 A438 | B438 C439 D439 E439 | F439 G439 A439 B439 | C440 D440 E440 F440 | G440 A440 B440 C441 | D441 E441 F441 G441 | A441 B441 C442 D442 | E442 F442 G442 A442 | B442 C443 D443 E443 | F443 G

[illegible][illegible]

1.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$   
 2.  $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$   
 3.  $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$   
 4.  $\frac{1}{2} \times \frac{1}{8} = \frac{1}{16}$   
 5.  $\frac{1}{4} \times \frac{1}{8} = \frac{1}{32}$   
 6.  $\frac{1}{2} \times \frac{1}{16} = \frac{1}{32}$   
 7.  $\frac{1}{4} \times \frac{1}{16} = \frac{1}{64}$   
 8.  $\frac{1}{2} \times \frac{1}{32} = \frac{1}{64}$   
 9.  $\frac{1}{4} \times \frac{1}{32} = \frac{1}{128}$   
 10.  $\frac{1}{2} \times \frac{1}{64} = \frac{1}{128}$   
 11.  $\frac{1}{4} \times \frac{1}{128} = \frac{1}{256}$   
 12.  $\frac{1}{2} \times \frac{1}{256} = \frac{1}{256}$   
 13.  $\frac{1}{4} \times \frac{1}{256} = \frac{1}{512}$   
 14.  $\frac{1}{2} \times \frac{1}{512} = \frac{1}{512}$   
 15.  $\frac{1}{4} \times \frac{1}{512} = \frac{1}{1024}$   
 16.  $\frac{1}{2} \times \frac{1}{1024} = \frac{1}{1024}$   
 17.  $\frac{1}{4} \times \frac{1}{1024} = \frac{1}{2048}$   
 18.  $\frac{1}{2} \times \frac{1}{2048} = \frac{1}{2048}$   
 19.  $\frac{1}{4} \times \frac{1}{2048} = \frac{1}{4096}$   
 20.  $\frac{1}{2} \times \frac{1}{4096} = \frac{1}{4096}$   
 21.  $\frac{1}{4} \times \frac{1}{4096} = \frac{1}{8192}$   
 22.  $\frac{1}{2} \times \frac{1}{8192} = \frac{1}{8192}$   
 23.  $\frac{1}{4} \times \frac{1}{8192} = \frac{1}{16384}$   
 24.  $\frac{1}{2} \times \frac{1}{16384} = \frac{1}{16384}$   
 25.  $\frac{1}{4} \times \frac{1}{16384} = \frac{1}{32768}$   
 26.  $\frac{1}{2} \times \frac{1}{32768} = \frac{1}{32768}$   
 27.  $\frac{1}{4} \times \frac{1}{32768} = \frac{1}{65536}$   
 28.  $\frac{1}{2} \times \frac{1}{65536} = \frac{1}{65536}$   
 29.  $\frac{1}{4} \times \frac{1}{65536} = \frac{1}{131072}$   
 30.  $\frac{1}{2} \times \frac{1}{131072} = \frac{1}{131072}$   
 31.  $\frac{1}{4} \times \frac{1}{131072} = \frac{1}{262144}$   
 32.  $\frac{1}{2} \times \frac{1}{262144} = \frac{1}{262144}$   
 33.  $\frac{1}{4} \times \frac{1}{262144} = \frac{1}{524288}$   
 34.  $\frac{1}{2} \times \frac{1}{524288} = \frac{1}{524288}$   
 35.  $\frac{1}{4} \times \frac{1}{524288} = \frac{1}{1048576}$   
 36.  $\frac{1}{2} \times \frac{1}{1048576} = \frac{1}{1048576}$   
 37.  $\frac{1}{4} \times \frac{1}{1048576} = \frac{1}{2097152}$   
 38.  $\frac{1}{2} \times \frac{1}{2097152} = \frac{1}{2097152}$   
 39.  $\frac{1}{4} \times \frac{1}{2097152} = \frac{1}{4194304}$   
 40.  $\frac{1}{2} \times \frac{1}{4194304} = \frac{1}{4194304}$   
 41.  $\frac{1}{4} \times \frac{1}{4194304} = \frac{1}{8388608}$   
 42.  $\frac{1}{2} \times \frac{1}{8388608} = \frac{1}{8388608}$   
 43.  $\frac{1}{4} \times \frac{1}{8388608} = \frac{1}{16777216}$   
 44.  $\frac{1}{2} \times \frac{1}{16777216} = \frac{1}{16777216}$   
 45.  $\frac{1}{4} \times \frac{1}{16777216} = \frac{1}{33554432}$   
 46.  $\frac{1}{2} \times \frac{1}{33554432} = \frac{1}{33554432}$   
 47.  $\frac{1}{4} \times \frac{1}{33554432} = \frac{1}{67108864}$   
 48.  $\frac{1}{2} \times \frac{1}{67108864} = \frac{1}{67108864}$   
 49.  $\frac{1}{4} \times \frac{1}{67108864} = \frac{1}{134217728}$   
 50.  $\frac{1}{2} \times \frac{1}{134217728} = \frac{1}{134217728}$   
 51.  $\frac{1}{4} \times \frac{1}{134217728} = \frac{1}{268435456}$   
 52.  $\frac{1}{2} \times \frac{1}{268435456} = \frac{1}{268435456}$   
 53.  $\frac{1}{4} \times \frac{1}{268435456} = \frac{1}{536870912}$   
 54.  $\frac{1}{2} \times \frac{1}{536870912} = \frac{1}{536870912}$   
 55.  $\frac{1}{4} \times \frac{1}{536870912} = \frac{1}{1073741824}$   
 56.  $\frac{1}{2} \times \frac{1}{1073741824} = \frac{1}{1073741824}$   
 57.  $\frac{1}{4} \times \frac{1}{1073741824} = \frac{1}{2147483648}$   
 58.  $\frac{1}{2} \times \frac{1}{2147483648} = \frac{1}{2147483648}$   
 59.  $\frac{1}{4} \times \frac{1}{2147483648} = \frac{1}{4294967296}$   
 60.  $\frac{1}{2} \times \frac{1}{4294967296} = \frac{1}{4294967296}$   
 61.  $\frac{1}{4} \times \frac{1}{4294967296} = \frac{1}{8589934592}$   
 62.  $\frac{1}{2} \times \frac{1}{8589934592} = \frac{1}{8589934592}$   
 63.  $\frac{1}{4} \times \frac{1}{8589934592} = \frac{1}{17179869184}$   
 64.  $\frac{1}{2} \times \frac{1}{17179869184} = \frac{1}{17179869184}$   
 65.  $\frac{1}{4} \times \frac{1}{17179869184} = \frac{1}{34359738368}$   
 66.  $\frac{1}{2} \times \frac{1}{34359738368} = \frac{1}{34359738368}$   
 67.  $\frac{1}{4} \times \frac{1}{34359738368} = \frac{1}{68719476736}$   
 68.  $\frac{1}{2} \times \frac{1}{68719476736} = \frac{1}{68719476736}$   
 69.  $\frac{1}{4} \times \frac{1}{68719476736} = \frac{1}{137438953472}$   
 70.  $\frac{1}{2} \times \frac{1}{137438953472} = \frac{1}{137438953472}$   
 71.  $\frac{1}{4} \times \frac{1}{137438953472} = \frac{1}{274877906944}$   
 72.  $\frac{1}{2} \times \frac{1}{274877906944} = \frac{1}{274877906944}$   
 73.  $\frac{1}{4} \times \frac{1}{274877906944} = \frac{1}{549755813888}$   
 74.  $\frac{1}{2} \times \frac{1}{549755813888} = \frac{1}{549755813888}$   
 75.  $\frac{1}{4} \times \frac{1}{549755813888} = \frac{1}{1099511627776}$   
 76.  $\frac{1}{2} \times \frac{1}{1099511627776} = \frac{1}{1099511627776}$   
 77.  $\frac{1}{4} \times \frac{1}{1099511627776} = \frac{1}{2199023255552}$   
 78.  $\frac{1}{2} \times \frac{1}{2199023255552} = \frac{1}{2199023255552}$   
 79.  $\frac{1}{4} \times \frac{1}{2199023255552} = \frac{1}{4398046511104}$   
 80.  $\frac{1}{2} \times \frac{1}{4398046511104} = \frac{1}{4398046511104}$   
 81.  $\frac{1}{4} \times \frac{1}{4398046511104} = \frac{1}{8796093022208}$   
 82.  $\frac{1}{2} \times \frac{1}{8796093022208} = \frac{1}{8796093022208}$   
 83.  $\frac{1}{4} \times \frac{1}{8796093022208} = \frac{1}{17592186044416}$   
 84.  $\frac{1}{2} \times \frac{1}{17592186044416} = \frac{1}{175921$

1. *Pharmaceutical industry* – The pharmaceutical industry is a major player in the healthcare sector, responsible for the development, production, and distribution of drugs. It is a highly regulated industry with significant research and development costs. The industry is often criticized for high drug prices and for prioritizing profit over patient care.

5  
4




1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1

[illegible]

A complex musical score for a string quartet, featuring four staves with various musical notations including notes, rests, and dynamic markings like 'p' and 'f'.

[illegible]







5  
 4

1. *Pharmaceutical industry* – The pharmaceutical industry is a major contributor to the economy of the United States. It is a highly competitive industry with a high barrier to entry. The industry is characterized by a high level of research and development (R&D) spending, which is necessary to develop new drugs. The industry is also characterized by a high level of marketing spending, which is necessary to promote new drugs. The industry is a major source of employment in the United States.

[illegible][illegible][illegible][illegible]

•  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$   $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$   $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$   $\frac{1}{2} \times \frac{1}{16} = \frac{1}{32}$   $\frac{1}{4} \times \frac{1}{16} = \frac{1}{64}$   $\frac{1}{2} \times \frac{1}{64} = \frac{1}{128}$   $\frac{1}{4} \times \frac{1}{64} = \frac{1}{256}$   $\frac{1}{2} \times \frac{1}{256} = \frac{1}{512}$   $\frac{1}{4} \times \frac{1}{256} = \frac{1}{1024}$   $\frac{1}{2} \times \frac{1}{1024} = \frac{1}{2048}$   $\frac{1}{4} \times \frac{1}{1024} = \frac{1}{4096}$   $\frac{1}{2} \times \frac{1}{4096} = \frac{1}{8192}$   $\frac{1}{4} \times \frac{1}{4096} = \frac{1}{16384}$   $\frac{1}{2} \times \frac{1}{16384} = \frac{1}{32768}$   $\frac{1}{4} \times \frac{1}{16384} = \frac{1}{65536}$   $\frac{1}{2} \times \frac{1}{65536} = \frac{1}{131072}$   $\frac{1}{4} \times \frac{1}{65536} = \frac{1}{262144}$   $\frac{1}{2} \times \frac{1}{262144} = \frac{1}{524288}$   $\frac{1}{4} \times \frac{1}{262144} = \frac{1}{1048576}$   $\frac{1}{2} \times \frac{1}{1048576} = \frac{1}{2097152}$   $\frac{1}{4} \times \frac{1}{1048576} = \frac{1}{4194304}$   $\frac{1}{2} \times \frac{1}{4194304} = \frac{1}{8388608}$   $\frac{1}{4} \times \frac{1}{4194304} = \frac{1}{16777216}$   $\frac{1}{2} \times \frac{1}{16777216} = \frac{1}{33554432}$   $\frac{1}{4} \times \frac{1}{16777216} = \frac{1}{67108864}$   $\frac{1}{2} \times \frac{1}{67108864} = \frac{1}{134217728}$   $\frac{1}{4} \times \frac{1}{67108864} = \frac{1}{268435456}$   $\frac{1}{2} \times \frac{1}{268435456} = \frac{1}{536870912}$   $\frac{1}{4} \times \frac{1}{268435456} = \frac{1}{1073741824}$   $\frac{1}{2} \times \frac{1}{1073741824} = \frac{1}{2147483648}$   $\frac{1}{4} \times \frac{1}{1073741824} = \frac{1}{4294967296}$   $\frac{1}{2} \times \frac{1}{4294967296} = \frac{1}{8589934592}$   $\frac{1}{4} \times \frac{1}{4294967296} = \frac{1}{17179869184}$   $\frac{1}{2} \times \frac{1}{17179869184} = \frac{1}{34359738368}$   $\frac{1}{4} \times \frac{1}{17179869184} = \frac{1}{68719476736}$   $\frac{1}{2} \times \frac{1}{68719476736} = \frac{1}{137438953472}$   $\frac{1}{4} \times \frac{1}{68719476736} = \frac{1}{274877906944}$   $\frac{1}{2} \times \frac{1}{274877906944} = \frac{1}{549755813888}$   $\frac{1}{4} \times \frac{1}{274877906944} = \frac{1}{1099511627776}$   $\frac{1}{2} \times \frac{1}{1099511627776} = \frac{1}{2199023255552}$   $\frac{1}{4} \times \frac{1}{1099511627776} = \frac{1}{4398046511104}$   $\frac{1}{2} \times \frac{1}{4398046511104} = \frac{1}{8796093022208}$   $\frac{1}{4} \times \frac{1}{4398046511104} = \frac{1}{17592186044416}$   $\frac{1}{2} \times \frac{1}{17592186044416} = \frac{1}{35184372088832}$   $\frac{1}{4} \times \frac{1}{17592186044416} = \frac{1}{70368744177664}$   $\frac{1}{2} \times \frac{1}{70368744177664} = \frac{1}{140737488355328}$   $\frac{1}{4} \times \frac{1}{70368744177664} = \frac{1}{281474976710656}$   $\frac{1}{2} \times \frac{1}{281474976710656} = \frac{1}{562949953421312}$   $\frac{1}{4} \times \frac{1}{281474976710656} = \frac{1}{1125899906842624}$   $\frac{1}{2} \times \frac{1}{1125899906842624} = \frac{1}{2251799813685248}$   $\frac{1}{4} \times \frac{1}{1125899906842624} = \frac{1}{4503599627370496}$   $\frac{1}{2} \times \frac{1}{4503599627370496} = \frac{1}{9007199254740992}$   $\frac{1}{4} \times \frac{1}{4503599627370496} = \frac{1}{18014398509481984}$   $\frac{1}{2} \times \frac{1}{18014398509481984} = \frac{1}{36028797018963968}$   $\frac{1}{4} \times \frac{1}{18014398509481984} = \frac{1}{72057594037927936}$   $\frac{1}{2} \times \frac{1}{72057594037927936} = \frac{1}{144115188075855872}$   $\frac{1}{4} \times \frac{1}{72057594037927936} = \frac{1}{288230376151711744}$   $\frac{1}{2} \times \frac{1}{288230376151711744} = \frac{1}{576460752303423488}$   $\frac{1}{4} \times \frac{1}{288230376151711744} = \frac{1}{1152921504606846976}$   $\frac{1}{2} \times \frac{1}{1152921504606846976} = \frac{1}{2305843009213693952}$   $\frac{1}{4} \times \frac{1}{1152921504606846976} = \frac{1}{4611686018427387904}$   $\frac{1}{2} \times \frac{1}{4611686018427387904} = \frac{1}{9223372036854775808}$   $\frac{1}{4} \times \frac{1}{4611686018427387904} = \frac{1}{18446744073709551616}$   $\frac{1}{2} \times \frac{1}{18446744073709551616} = \frac{1}{36893488147419103232}$   $\frac{1}{4} \times \frac{1}{18446744073709551616} = \frac{1}{73786976294838206464}$   $\frac{1}{2} \times \frac{1}{73786976294838206464} = \frac{1}{147573952589676412928}$   $\frac{1}{4} \times \frac{1}{73786976294838206464} = \frac{1}{295147905179352825856}$   $\frac{1}{2} \times \frac{1}{295147905179352825856} = \frac{1}{590295810358705651712}$   $\frac{1}{4} \times \frac{1}{295147905179352825856} = \frac{1}{1180591620717411303424}$   $\frac{1}{2} \times \frac{1}{1180591620717411303424} = \frac{1}{2361183241434822606848}$   $\frac{1}{4} \times \frac{1}{1180591620717411303424} = \frac{1}{4722366482869645213696}$   $\frac{1}{2} \times \frac{1}{4722366482869645213696} = \frac{1}{9444732965739290427392}$   $\frac{1}{4} \times \frac{1}{4722366482869645213696} = \frac{1}{18889465931478580854784}$   $\frac{1}{2} \times \frac{1}{18889465931478580854784} = \frac{1}{37778931862957161709568}$   $\frac{1}{4} \times \frac{1}{18889465931478580854784} = \frac{1}{75557863725914323419136}$   $\frac{1}{2} \times \frac{1}{75557863725914323419136} = \frac{1}{151115727451828646838272}$   $\frac{1}{4} \times \frac{1}{75557863725914323419136} = \frac{1}{302231454903657293676544}$   $\frac{1}{2} \times \frac{1}{302231454903657293676544} = \frac{1}{604462909807314587353088}$   $\frac{1}{4} \times \frac{1}{302231454903657293676544} = \frac{1}{1208925819614629174706176}$   $\frac{1}{2} \times \frac{1}{1208925819614629174706176$

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

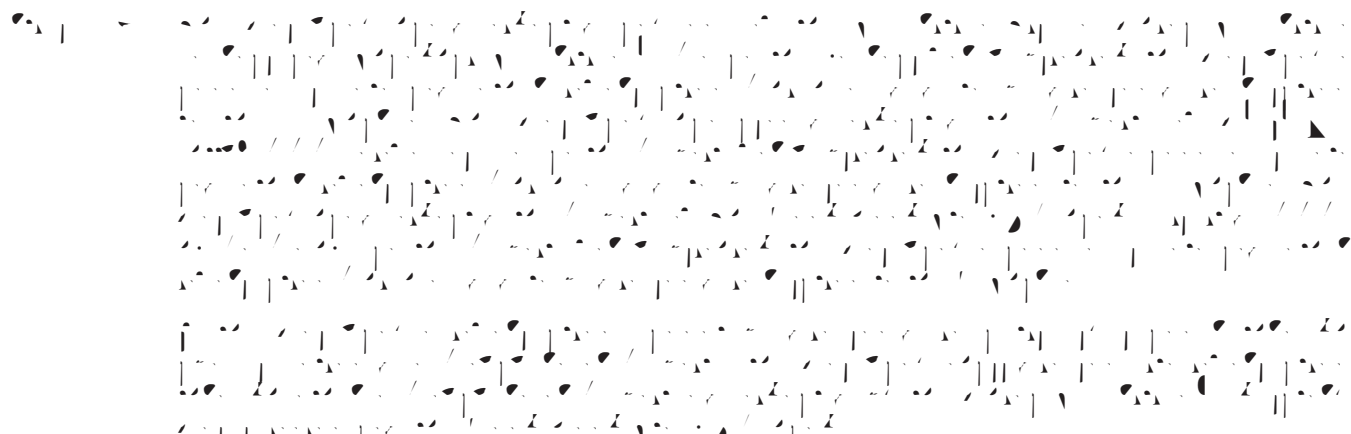
[illegible][illegible][illegible]

1. *Pharmaceutical industry* – The pharmaceutical industry is a major contributor to the U.S. economy, with sales of over \$200 billion in 2000. The industry is characterized by high research and development costs, long time to market, and high barriers to entry. The industry is also heavily regulated, with the FDA playing a central role in the approval of new drugs.










$$\begin{array}{ccccccc}
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 \end{array}$$







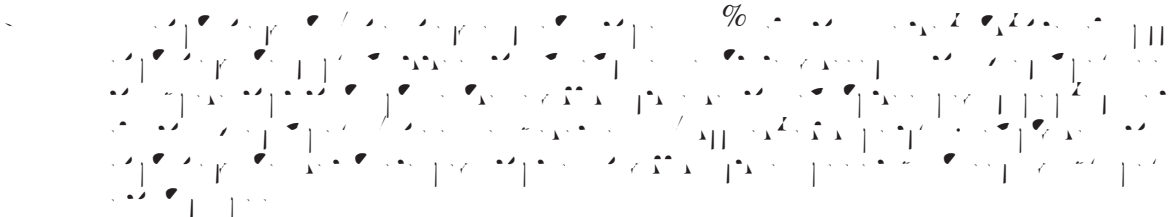
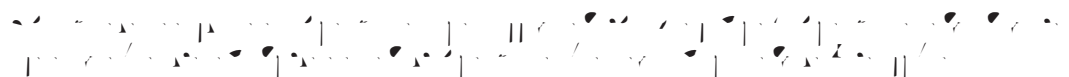
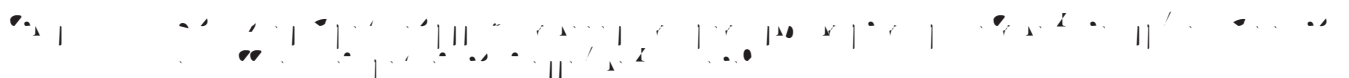








t 2 t t



[illegible]

1. *Pharmaceutical industry* – The pharmaceutical industry is a major player in the healthcare sector, responsible for the development, production, and distribution of drugs. It is a highly regulated industry with significant research and development costs.

The musical score for 'The Rose Tree' is presented on a single system with two staves. The top staff is for the voice, featuring a treble clef, a key signature of one flat (B-flat), and a 4/4 time signature. The melody is written in a simple, folk-like style with various note values including quarter, eighth, and sixteenth notes, as well as rests. The bottom staff is for the piano accompaniment, using a grand staff (treble and bass clefs). It provides a harmonic foundation with chords and moving lines in both hands. The piece concludes with a final chord in the piano part.

1. *Pharmaceutical industry* – The pharmaceutical industry is a major contributor to the U.S. economy, with sales of over \$300 billion in 2000. The industry is characterized by high R&D costs, long development times, and high barriers to entry. The industry is also heavily regulated, with the FDA playing a central role in drug approval and oversight.

[illegible]

The Little Boat

Andante

G A B $\flat$  C D E F G A B $\flat$  C D E F G A

[illegible][illegible][illegible]

•  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$       $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$       $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$       $\frac{1}{2} \times \frac{1}{8} = \frac{1}{16}$       $\frac{1}{4} \times \frac{1}{8} = \frac{1}{32}$       $\frac{1}{8} \times \frac{1}{8} = \frac{1}{64}$

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1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

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[illegible]

1. *Pharmaceutical industry* – The pharmaceutical industry is a major contributor to the U.S. economy, with sales of over \$200 billion in 2000. The industry is characterized by high research and development costs, long time to market, and high barriers to entry. The industry is also heavily regulated by the FDA.

2. *Health insurance industry* – The health insurance industry is a major contributor to the U.S. economy, with sales of over \$1 trillion in 2000. The industry is characterized by high fixed costs, high barriers to entry, and high competition. The industry is also heavily regulated by the state and federal governments.

3. *Medical device industry* – The medical device industry is a major contributor to the U.S. economy, with sales of over \$100 billion in 2000. The industry is characterized by high research and development costs, long time to market, and high barriers to entry. The industry is also heavily regulated by the FDA.

4. *Medical research industry* – The medical research industry is a major contributor to the U.S. economy, with sales of over \$100 billion in 2000. The industry is characterized by high research and development costs, long time to market, and high barriers to entry. The industry is also heavily regulated by the FDA.

5. *Medical education industry* – The medical education industry is a major contributor to the U.S. economy, with sales of over \$100 billion in 2000. The industry is characterized by high fixed costs, high barriers to entry, and high competition. The industry is also heavily regulated by the state and federal governments.

*(The following are the lyrics of the song "I'm Gonna Be a Star" by The Beatles, which was released in 1967.)*

1.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

**t 13 t t t t**

1. *Chlorophyll a* (Chl *a*) is the primary photosynthetic pigment in most plants and algae. It is a green pigment that absorbs light energy in the blue and red regions of the visible spectrum.

2. *Chlorophyll b* (Chl *b*) is an accessory pigment that absorbs light energy in the blue and orange-red regions. It transfers energy to Chl *a* for photosynthesis.

3. *Carotenoids* are a group of pigments that absorb light energy in the blue and green regions. They include carotenes (orange) and xanthophylls (yellow). They transfer energy to Chl *a* and also protect the plant from photo-oxidative damage.

4. *Xanthophylls* are a subset of carotenoids that can be converted to zeaxanthin under stress conditions to dissipate excess light energy as heat.

5. *Anthocyanins* are water-soluble pigments that give plants red, purple, and blue colors. They are not directly involved in photosynthesis but can protect the plant from UV radiation and herbivores.

6. *Flavonoids* are a large group of plant pigments that include flavones, flavanones, and flavonols. They are involved in various plant processes, including UV protection and signaling.

7. *Anthoxanthins* are a type of flavonoid that give plants white or yellow colors. They are involved in UV protection and signaling.

8. *Anthocyanins* (repeated) are water-soluble pigments that give plants red, purple, and blue colors. They are not directly involved in photosynthesis but can protect the plant from UV radiation and herbivores.

9. *Anthocyanins* (repeated) are water-soluble pigments that give plants red, purple, and blue colors. They are not directly involved in photosynthesis but can protect the plant from UV radiation and herbivores.

10. *Anthocyanins* (repeated) are water-soluble pigments that give plants red, purple, and blue colors. They are not directly involved in photosynthesis but can protect the plant from UV radiation and herbivores.

The musical score for 'The Rose Tree' is presented in three systems. The first system consists of a single line of music. The second system consists of two lines of music. The third system consists of two lines of music. The music is written in a simple, folk-like style with a key signature of one flat and a 2/4 time signature. The melody is simple and easy to remember, with a few variations in the second and third systems. The lyrics are written below the music in a simple, sans-serif font.

1.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

[illegible]

**The Little Boat**  
J. S. Bach  
Andante

1. G4 (whole note)  
2. F4 (half note)  
3. E4 (quarter note), D4 (quarter note)  
4. C4 (quarter note), B3 (quarter note)  
5. A3 (quarter note), G3 (quarter note)  
6. F3 (quarter note), E3 (quarter note)  
7. D3 (quarter note), C3 (quarter note)  
8. B2 (quarter note), A2 (quarter note)  
9. G2 (quarter note), F2 (quarter note)  
10. E2 (quarter note), D2 (quarter note)  
11. C2 (quarter note), B1 (quarter note)  
12. A1 (quarter note), G1 (quarter note)  
13. F1 (quarter note), E1 (quarter note)  
14. D1 (quarter note), C1 (quarter note)  
15. B0 (quarter note), A0 (quarter note)  
16. G0 (whole note)

[illegible]

1. *Chlorophyll a* (Chl *a*) is the primary photosynthetic pigment in most plants and algae. It is responsible for capturing light energy and converting it into chemical energy through the process of photosynthesis. Chl *a* is a green pigment and is found in the chloroplasts of plant cells.

2. *Chlorophyll b* (Chl *b*) is an accessory pigment that works in conjunction with Chl *a* to capture light energy. It is a yellow-green pigment and is found in the chloroplasts of plant cells. Chl *b* helps to broaden the range of light wavelengths that can be absorbed by the photosynthetic system.

3. *Carotenoids* are a group of pigments that include carotenes and xanthophylls. They are responsible for capturing light energy and transferring it to Chl *a* for use in photosynthesis. Carotenoids are found in the chloroplasts of plant cells and are responsible for the yellow, orange, and red colors seen in autumn foliage.

4. *Xanthophylls* are a type of carotenoid that are involved in the light-harvesting process. They are responsible for capturing light energy and transferring it to Chl *a*. Xanthophylls are found in the chloroplasts of plant cells and are responsible for the yellow color seen in autumn foliage.

5. *Anthocyanins* are a group of pigments that are responsible for the red, purple, and blue colors seen in many plants. They are not involved in photosynthesis but are found in the vacuoles of plant cells. Anthocyanins are responsible for the color changes seen in autumn foliage.

**t 14 t R t**

1. *Pharmaceutical industry* (1990-2000)

A complex musical score for a string quartet, featuring four staves with various musical notations including notes, rests, and dynamic markings.

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