

[illegible]

**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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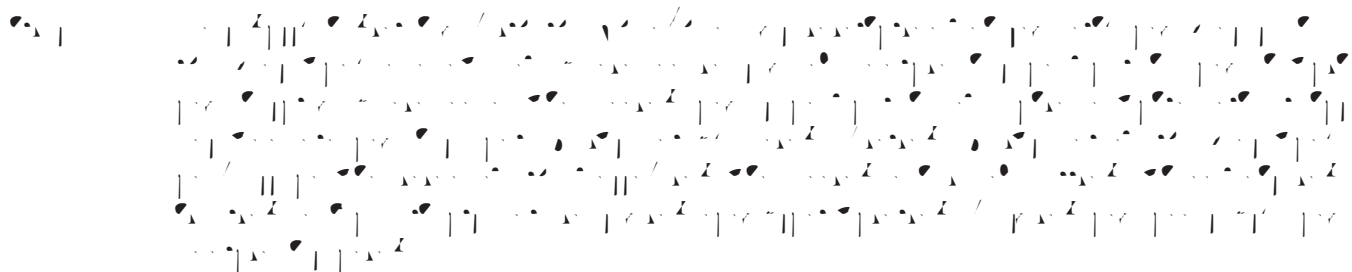
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t 2 t

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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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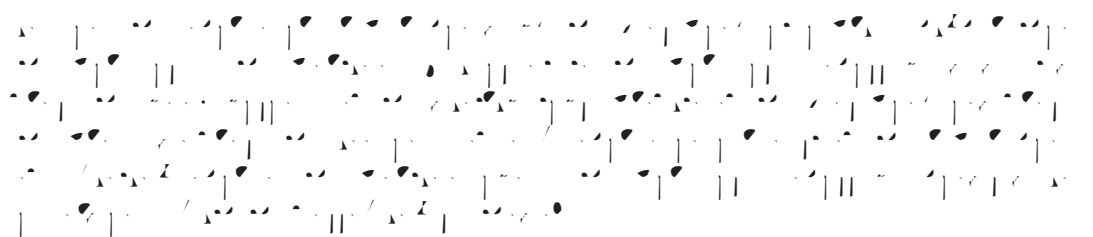
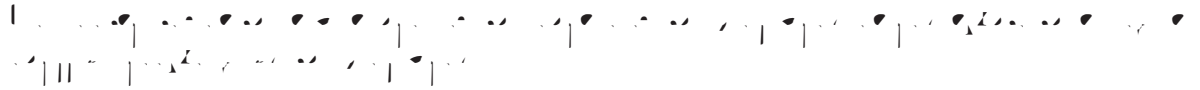
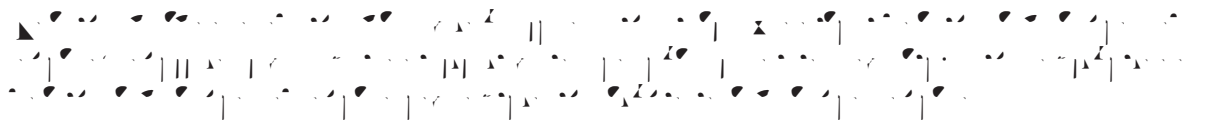
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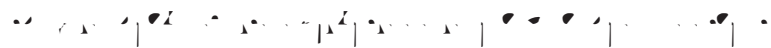
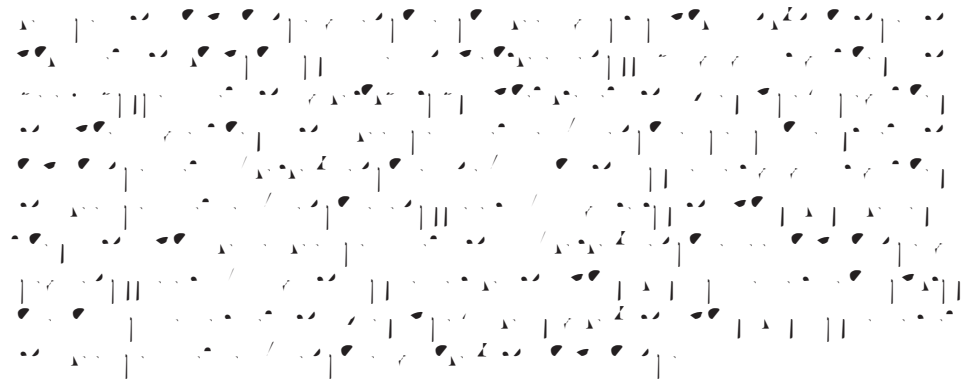
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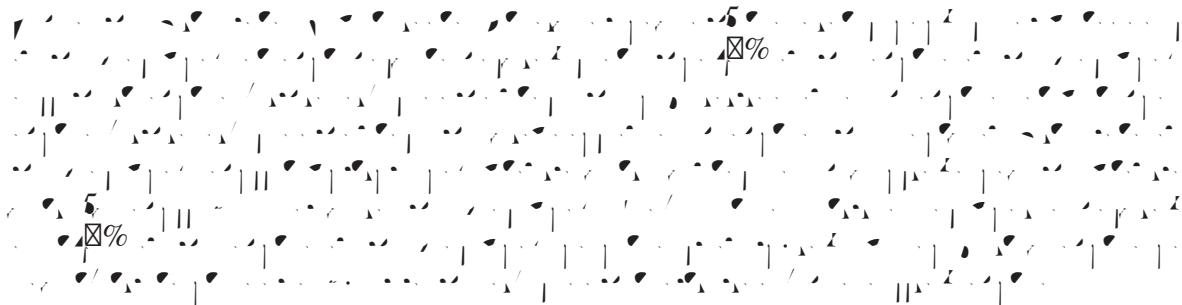
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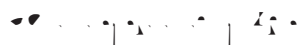
**t 3**



t 4

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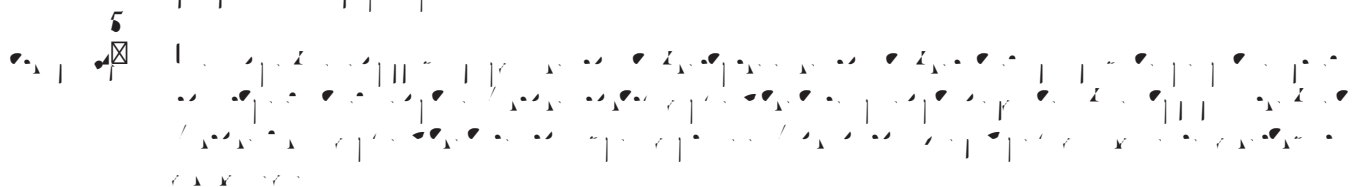
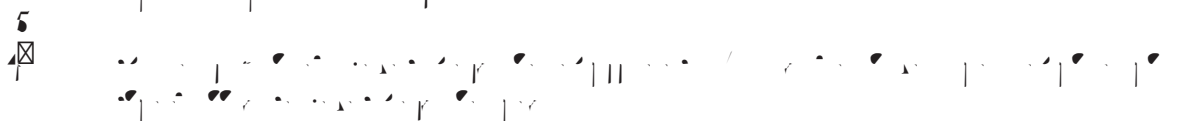
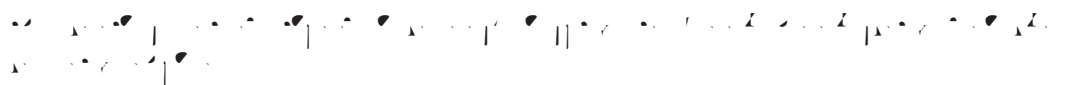
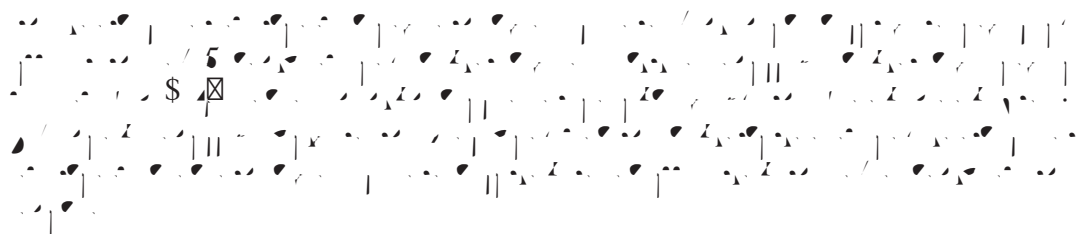
1. *Chlorophyll* *a* and *b* contents were determined by the method of Arar and Cook (1980). The *Chlorophyll* *a* and *b* contents were determined by the method of Arar and Cook (1980). The *Chlorophyll* *a* and *b* contents were determined by the method of Arar and Cook (1980).

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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 staves, with the first staff containing the melody and the second staff containing a harmonic accompaniment. The third system also consists of two staves, continuing the melody and accompaniment. The music is written in a style typical of early 20th-century popular music, with a focus on melody and simple harmonic support.

The musical score for 'The Rose Tree' is presented on five staves. The first staff is the vocal melody for the male voice, starting with a treble clef and a key signature of one flat (B-flat). The second staff is the vocal melody for the female voice, also in treble clef and one flat. The third staff is the piano accompaniment, featuring a treble clef and a key signature of one flat. The fourth and fifth staves are the piano accompaniment, featuring a bass clef and a key signature of one flat. The music is in 4/4 time and consists of a single system of five staves.

[illegible]





•  Musical notation for a single staff, measures 1-4. The notation includes various note values, rests, and bar lines.

 Musical notation for a single staff, measures 5-8. The notation includes various note values, rests, and bar lines.

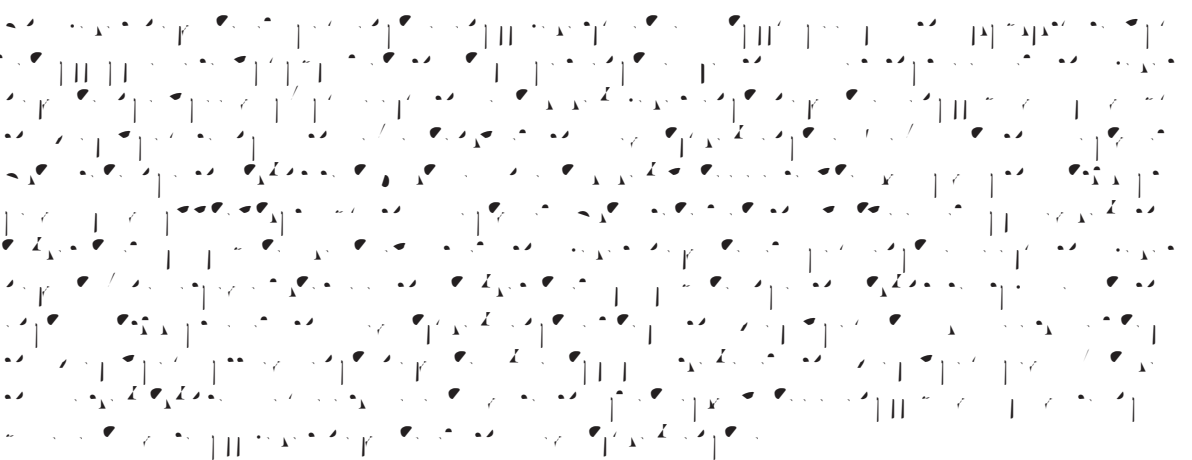
5  Musical notation for a single staff, measures 9-12. The notation includes various note values, rests, and bar lines.

•  Musical notation for a single staff, measures 13-16. The notation includes various note values, rests, and bar lines.

•  Musical notation for a single staff, measures 17-20. The notation includes various note values, rests, and bar lines.

•  Musical notation for a single staff, measures 21-24. The notation includes various note values, rests, and bar lines.

5  Musical notation for a single staff, measures 25-28. The notation includes various note values, rests, and bar lines.

 Musical notation for a single staff, measures 29-32. The notation includes various note values, rests, and bar lines.



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Musical notation staff 1

Musical notation staff 2

Musical notation staff 3

Musical notation staff 4

Musical notation staff 5

Musical notation staff 6

Musical notation staff 7

Musical notation staff 8

Musical notation staff 9

Musical notation staff 10

Musical notation staff 11

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Musical notation staff 76

Musical notation staff 77

Musical notation staff 78

Musical notation staff 79

Musical notation staff 80









Handwritten musical notation on five staves. The notation includes various notes, rests, and bar lines. A percentage sign (%) is visible on the second staff. A measure number '5' is written above the third staff, which begins with a square box containing an 'X'.

Handwritten musical notation on a single staff, continuing the sequence of notes and rests.

Handwritten musical notation on a single staff. It includes a measure number '5' above a square box containing an 'X', followed by 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 (%).

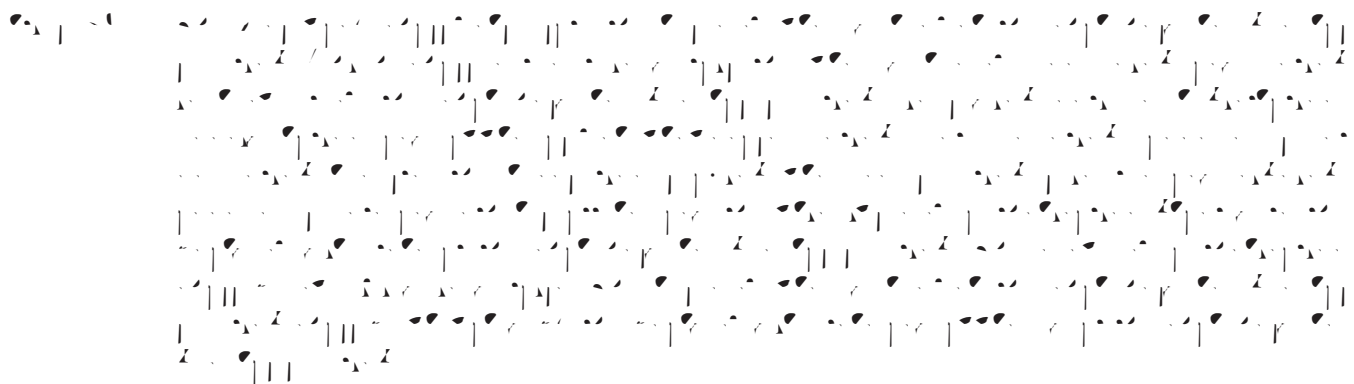
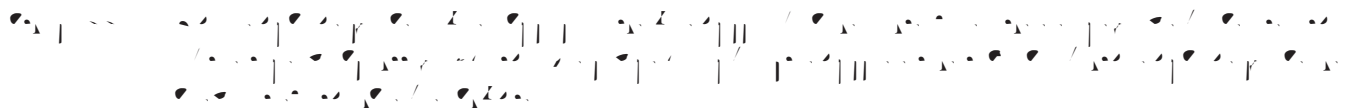
Handwritten musical notation on a single staff, ending with a percentage sign (%).

Handwritten musical notation on a single staff. It begins with a measure number '5' above a square box containing an 'X'.

Handwritten musical notation on a single staff. It starts with a measure number '5' above a square box containing an 'X', followed by a series of notes and rests.

Handwritten musical notation on a single staff, showing a dense sequence of notes and rests.

Handwritten musical notation on a single staff, continuing the dense sequence of notes and rests.





The musical score for 'The Rose Tree' is presented in a three-part setting. The first part is a vocal melody for the Soprano, followed by a vocal melody for the Alto. The third part is a piano accompaniment. The score is written in 2/4 time and features a key signature of one sharp (F#). The lyrics are in English and are repeated for both the Soprano and Alto parts. The piano accompaniment consists of a simple harmonic progression in the right hand and a bass line in the left hand.

[illegible]

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

[illegible]

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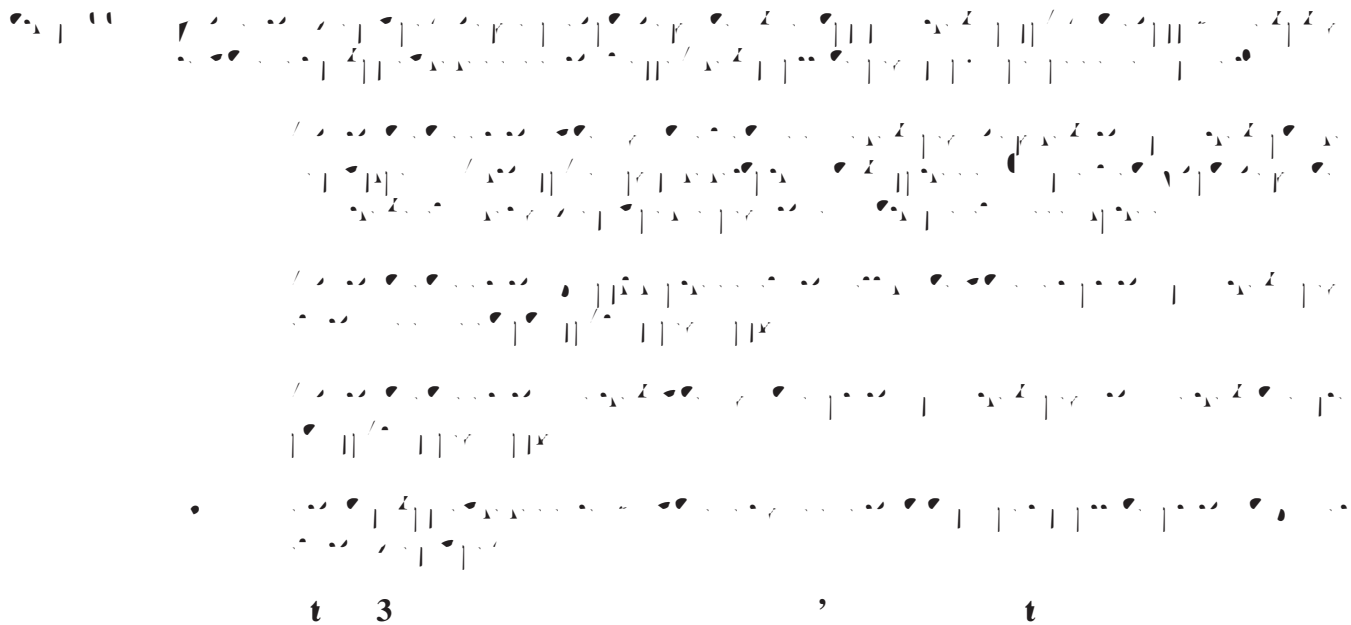
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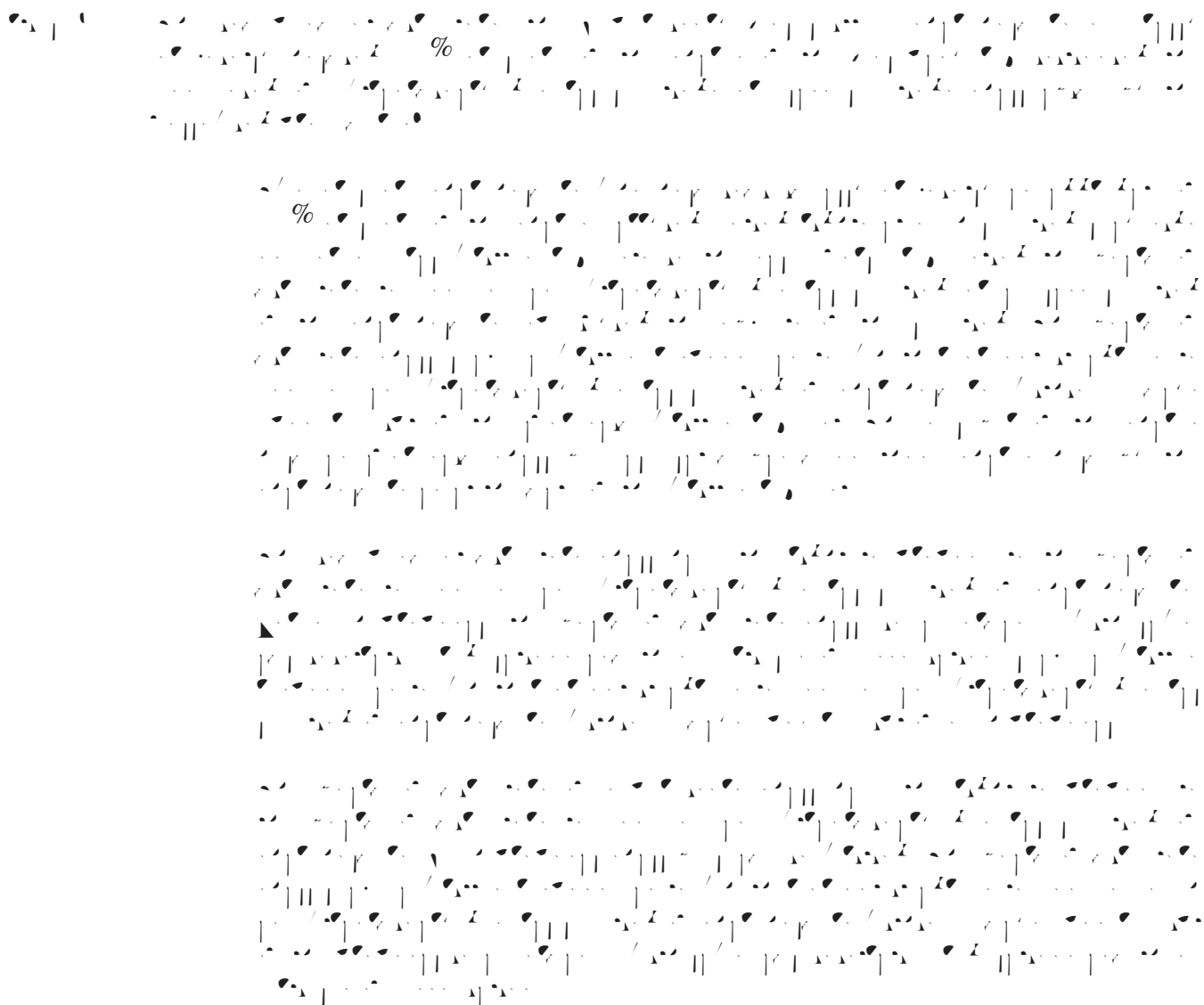
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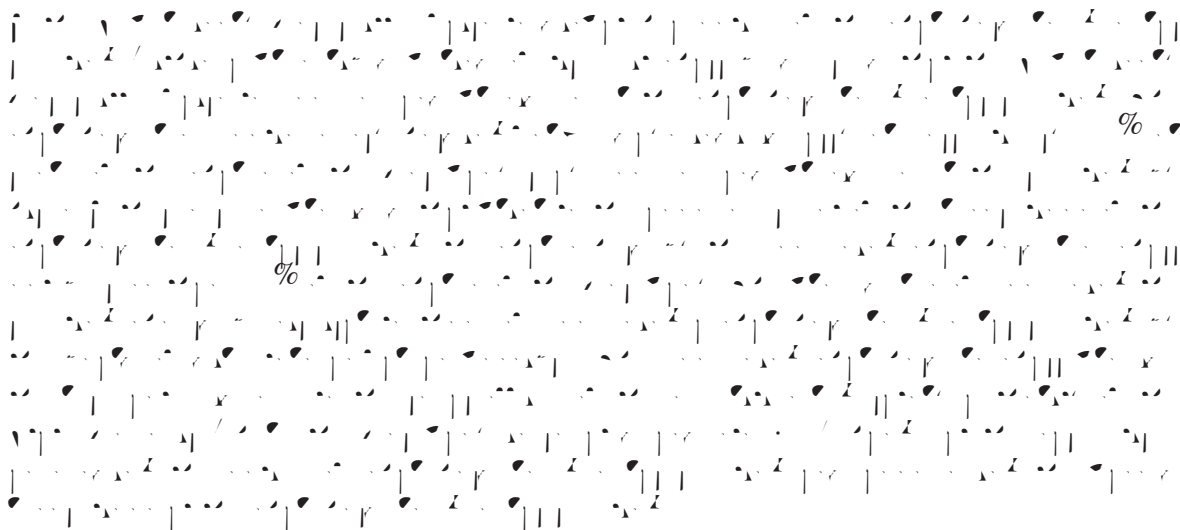
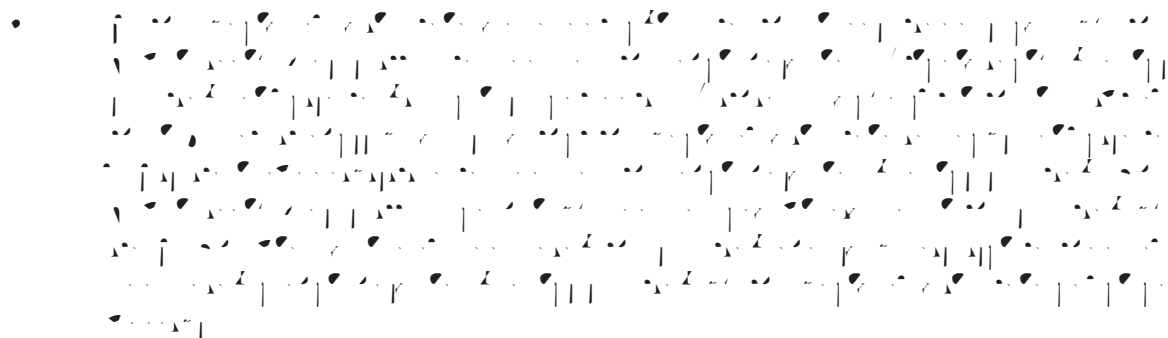
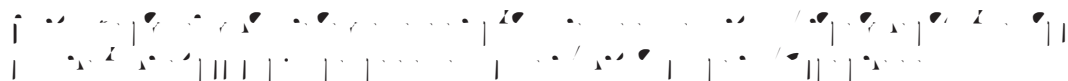
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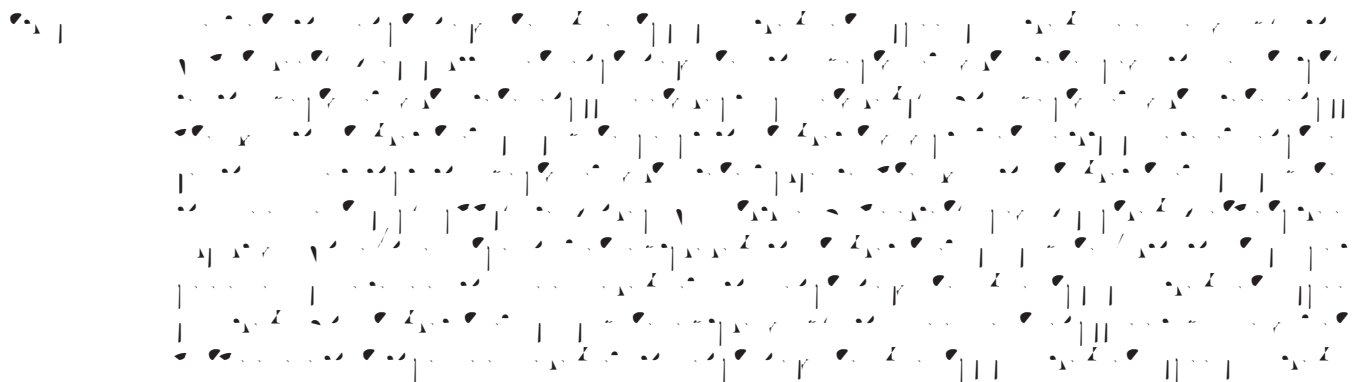
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1.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$   
 2.  $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$   
 3.  $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$   
 4.  $\frac{1}{2} \times \frac{1}{8} = \frac{1}{16}$   
 5.  $\frac{1}{4} \times \frac{1}{8} = \frac{1}{32}$   
 6.  $\frac{1}{8} \times \frac{1}{8} = \frac{1}{64}$   
 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.  $\frac{1}{2} \times \frac{1}{2097152} = \frac{1}{1048576}$   
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 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.  $\frac{1}{4} \times \frac{1}{268435456} = \frac{1}{67108864}$   
 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.  $\$

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

Allegretto

16 measures

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A handwritten musical score for the song 'The Rose Tree'. The score is written on six staves. The first staff begins with a treble clef and a key signature of one sharp (F#). The melody is written in a simple, folk-like style. The lyrics 'The Rose Tree' are written below the first staff. The second staff continues the melody. The third staff continues the melody. The fourth staff continues the melody. The fifth staff continues the melody. The sixth staff continues the melody. The score is written in ink on aged paper.

The Rose Tree

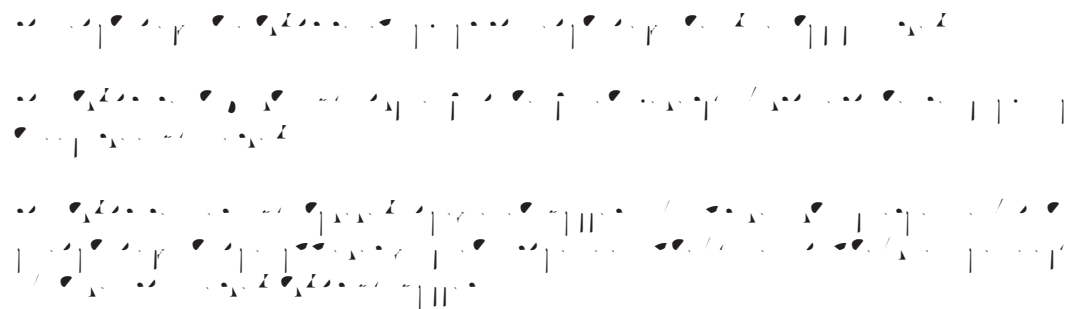
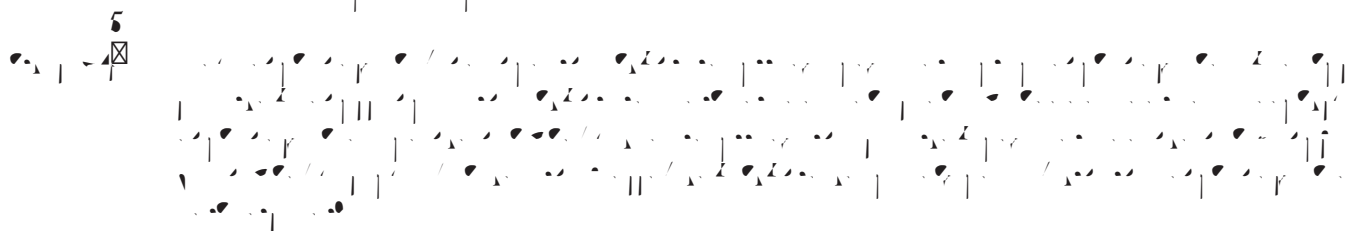
*(The music continues with a melodic line in the right hand and a rhythmic accompaniment in the left hand.)*

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

Allegretto

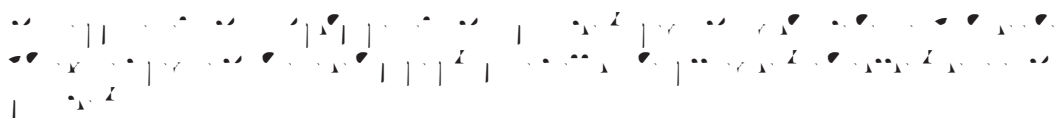
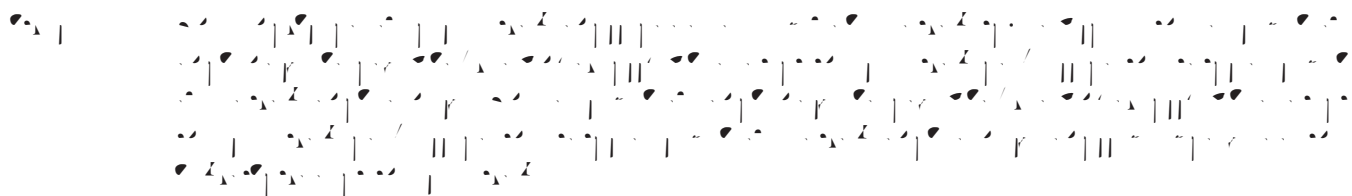
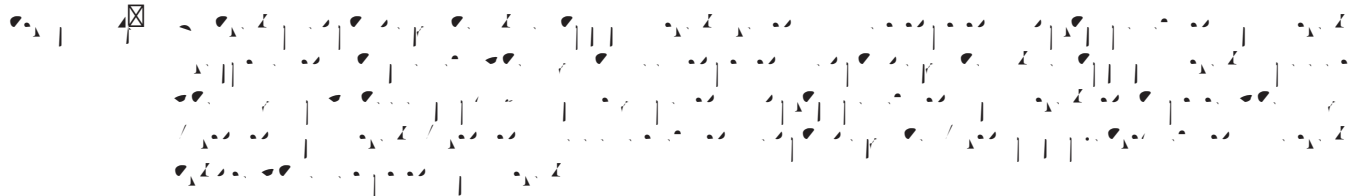
16 measures of music.

1. *Chlorophyll *a** and *Chlorophyll *b** were determined by the method of Arar and Collins (1971). The *Chlorophyll *a** and *Chlorophyll *b** contents were expressed as  $\mu\text{g g}^{-1}$  of dry weight.

[illegible]

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. The lyrics "The Rose Tree" are written below the first staff. The score continues with several more staves, each with its own line of lyrics. The handwriting is in ink and appears to be a personal or working draft.

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




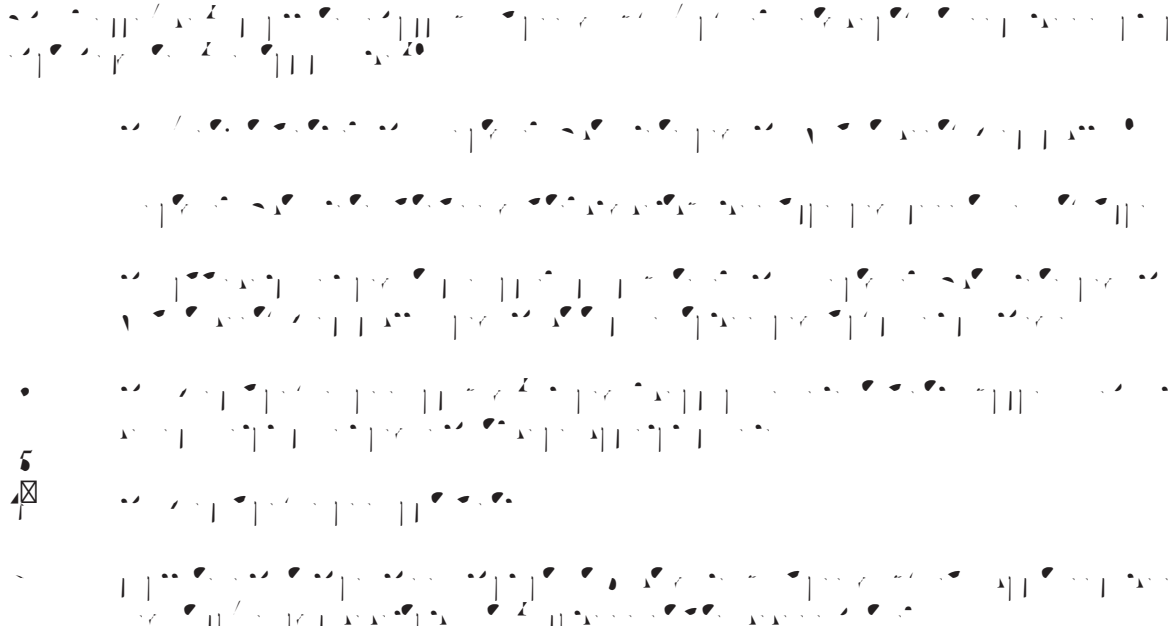






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Handwritten musical notation on a page with a large left margin. The notation consists of several staves of music, including treble and bass clefs, notes, rests, and bar lines. There are also some non-musical symbols like a percentage sign (%) and a box with a cross (⊠).

Handwritten musical notation on a page with a large left margin. The notation consists of several staves of music, including treble and bass clefs, notes, rests, and bar lines. There are also some non-musical symbols like a percentage sign (%) and a box with a cross (⊠).

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2000 年 12 月 10 日

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A musical score for the song "The Rose Tree". The score is written for a single melodic line on a five-line staff. The key signature has one sharp (F#), indicating the key of D major. The time signature is 4/4. The melody consists of a series of eighth and quarter notes, with some rests. The lyrics "The Rose Tree" are written below the staff, aligned with the notes. The score ends with a double bar line.

*(continued)*



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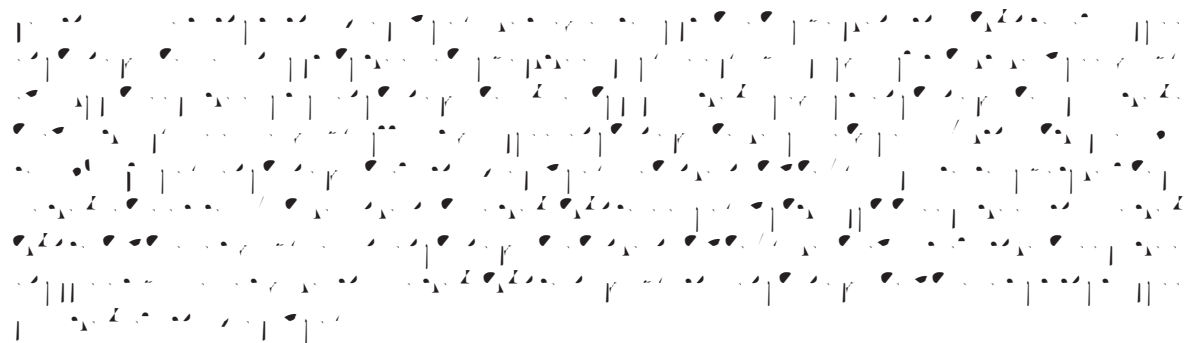
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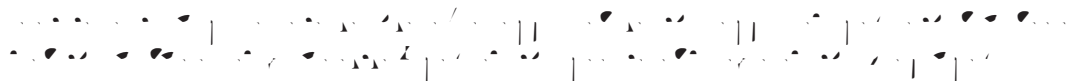
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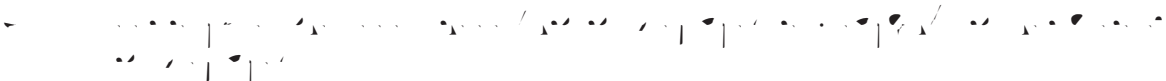
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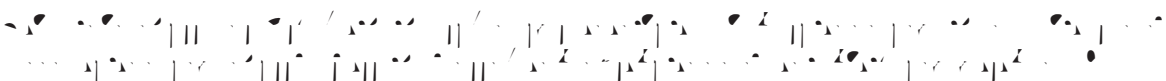


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[illegible]

[illegible][illegible]

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 sharp (F#), indicating the key of D major. 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.

$\frac{1}{\sqrt{2}} \begin{pmatrix} 1 & i \\ -1 & i \end{pmatrix}$

[illegible]

1. 2. 3. 4.

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The image shows a musical score for the song "The Rose Tree". It is written for a single voice and piano accompaniment. The score is in 2/4 time and consists of 16 measures. The melody is simple and catchy, with a repeating pattern of eighth and sixteenth notes. The piano accompaniment provides a steady harmonic background. The lyrics are written below the melody.

**The Rose Tree**

1. A rose tree, a rose tree,  
 2. A rose tree, a rose tree,  
 3. A rose tree, a rose tree,  
 4. A rose tree, a rose tree,  
 5. A rose tree, a rose tree,  
 6. A rose tree, a rose tree,  
 7. A rose tree, a rose tree,  
 8. A rose tree, a rose tree,  
 9. A rose tree, a rose tree,  
 10. A rose tree, a rose tree,  
 11. A rose tree, a rose tree,  
 12. A rose tree, a rose tree,  
 13. A rose tree, a rose tree,  
 14. A rose tree, a rose tree,  
 15. A rose tree, a rose tree,  
 16. A rose tree, a rose tree,

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

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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.  $\frac{1}{8} \times \frac{1}{8} = \frac{1}{64}$   
 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.  $\frac{1}{2} \times \frac{1}{64} = \frac{1}{128}$   
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 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.  $\frac{1}{2} \times \frac{1}{524288} = \frac{1}{262144}$   
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 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.  $\frac{1}{2} \times \frac{1}{4194304} = \frac{1}{2097152}$   
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 69.  $\frac{1}{8} \times \frac{1}{16777216} = \frac{1}{8388608}$   
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 75.  $\frac{1}{8} \times \frac{1}{67108864} = \frac{1}{33554432}$   
 76.  $\frac{1}{2} \times \frac{1}{134217728} = \frac{1}{67108864}$   
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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  $L^2(\Omega; \mathbb{R}^n)$ .

$\begin{array}{ccccccc} \bullet & & \bullet & & \bullet & & \bullet \\ | & & | & & | & & | \\ \bullet & & \bullet & & \bullet & & \bullet \\ | & & | & & | & & | \\ \bullet & & \bullet & & \bullet & & \bullet \end{array}$

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.

1.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$   
 2.  $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$   
 3.  $\frac{1}{16} \times \frac{1}{16} = \frac{1}{256}$   
 4.  $\frac{1}{256} \times \frac{1}{256} = \frac{1}{65536}$   
 5.  $\frac{1}{65536} \times \frac{1}{65536} = \frac{1}{4294967296}$   
 6.  $\frac{1}{4294967296} \times \frac{1}{4294967296} = \frac{1}{18446744073709551616}$   
 7.  $\frac{1}{18446744073709551616} \times \frac{1}{18446744073709551616} = \frac{1}{340282366920938463463374607431768211456}$   
 8.  $\frac{1}{340282366920938463463374607431768211456} \times \frac{1}{340282366920938463463374607431768211456} = \frac{1}{1163190451533131773526923964075108567450908498850555108120$

• The first system of the musical score for 'The Rose Tree'. It consists of a single line of music with a treble clef and a key signature of one flat (B-flat). The melody begins with a quarter note G4, followed by a quarter note A4, and then a half note B-flat4. The notation continues with various rhythmic values and accidentals, including a sharp sign (F#) and a double sharp sign (C##).

[illegible][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.  $\frac{1}{2} \times \frac{1}{1073741824} = \frac{1}{1073741824}$   
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 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.  $\frac{1}{4} \times \frac{1}{4294967296} = \frac{1}{8589934592}$   
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 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.  $\frac{1}{4} \times \frac{1}{4398046511104} = \frac{1}{8796093022208}$   
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 83.  $\frac{1}{4} \times \frac{1}{8796093022208} = \frac{1}{17592186044416}$   
 84.  $\frac{1}{2} \times \frac{1}{17592186044416} = \frac{1}{175921$

[illegible]

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

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

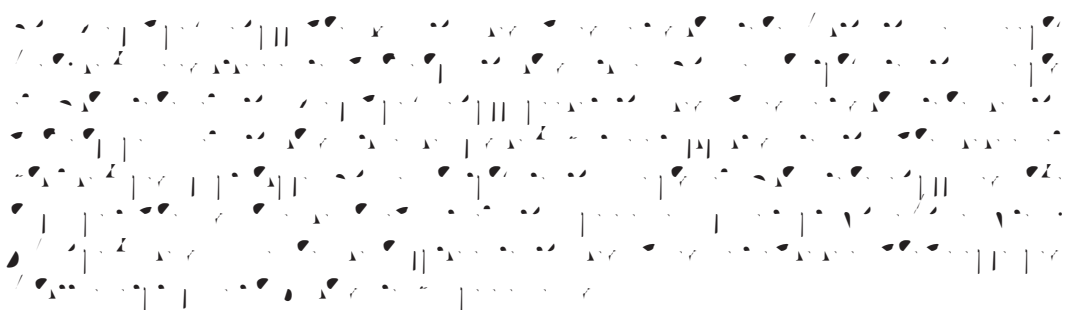
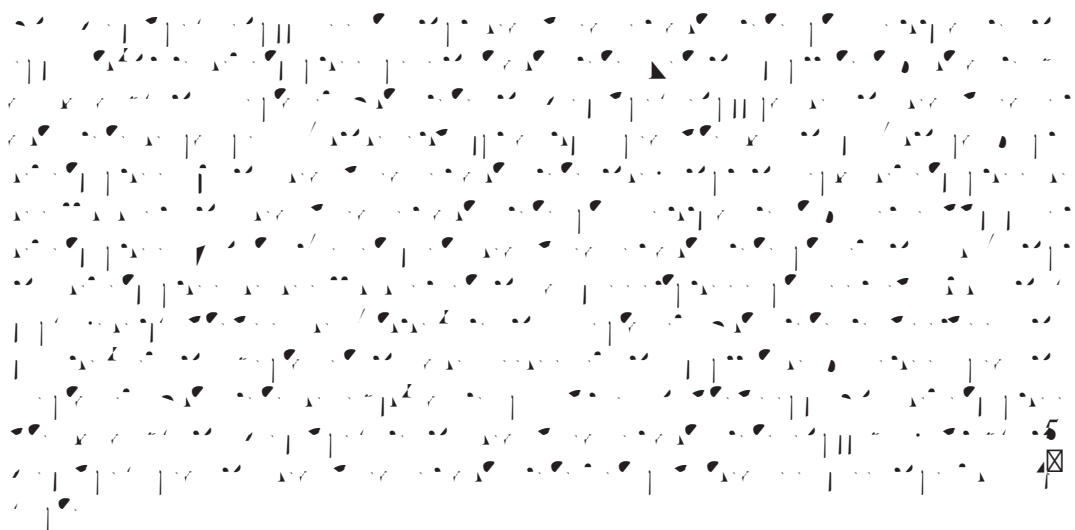
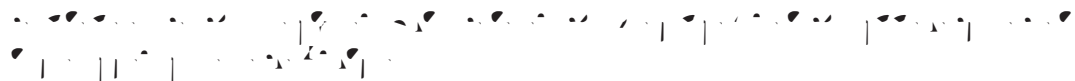
[illegible]

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.

[illegible]



5  
 4



[illegible][illegible]

5

[illegible][illegible][illegible]

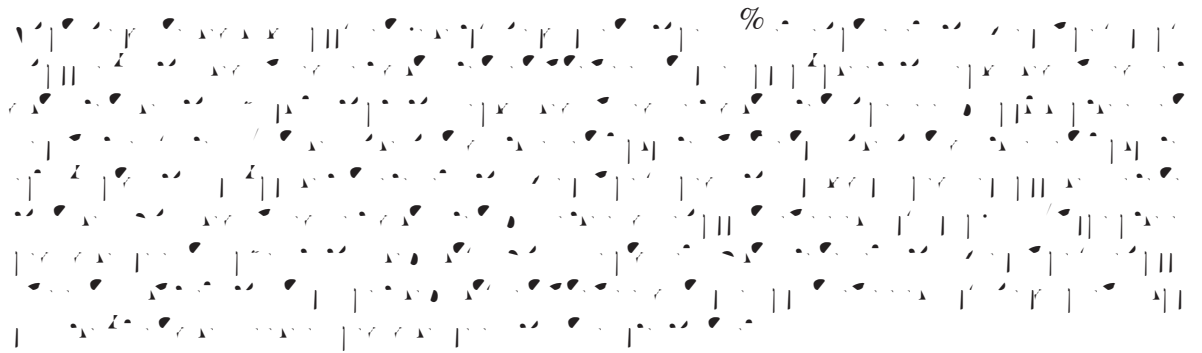
1.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

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.  $\frac{1}{4} \times \frac{1}{256} = \frac{1}{1024}$   
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 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.  $\frac{1}{4} \times \frac{1}{65536} = \frac{1}{16384}$   
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 50.  $\frac{1}{4} \times \frac{1}{262144} = \frac{1}{65536}$   
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 54.  $\frac{1}{8} \times \frac{1}{524288} = \frac{1}{262144}$   
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 56.  $\frac{1}{4} \times \frac{1}{1048576} = \frac{1}{262144}$   
 57.  $\frac{1}{8} \times \frac{1}{1048576} = \frac{1}{524288}$   
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 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.  $\frac{1}{4} \times \frac{1}{4194304} = \frac{1}{1048576}$   
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 84.  $\frac{1}{8} \times \frac{1}{536870912} = \frac{1}{268435456}$   
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 92.  $\$

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 3.  $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$   
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 7.  $\frac{1}{2} \times \frac{1}{16} = \frac{1}{32}$   
 8.  $\frac{1}{4} \times \frac{1}{16} = \frac{1}{64}$   
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 12.  $\frac{1}{8} \times \frac{1}{32} = \frac{1}{256}$   
 13.  $\frac{1}{2} \times \frac{1}{64} = \frac{1}{128}$   
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 15.  $\frac{1}{8} \times \frac{1}{64} = \frac{1}{512}$   
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 91.  $\frac{1}{2} \times \frac{1}{4294967296} = \frac{1$

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.





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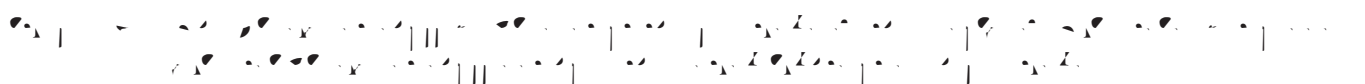
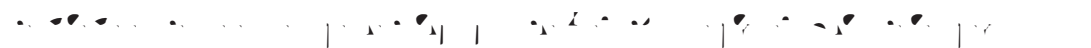
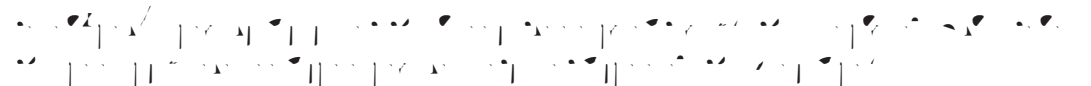
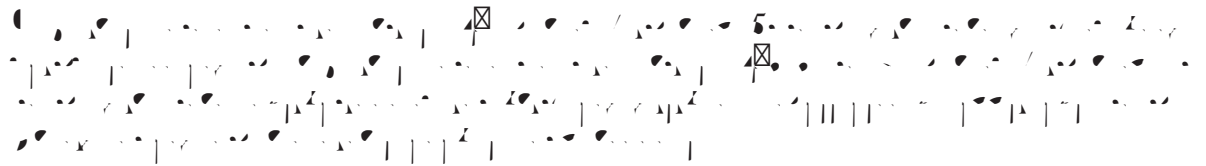


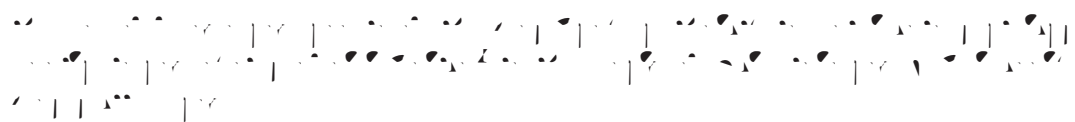
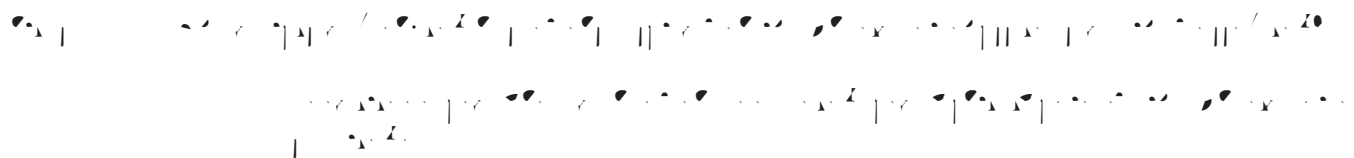
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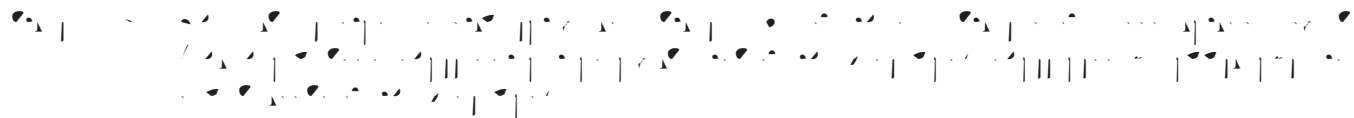




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 87. *Pharmaceuticals* (2083) 96: 101-102.  
 88. *Pharmaceuticals* (2084) 97: 101-102.  
 89. *Pharmaceuticals* (2085) 98: 101-102.  
 90. *Pharmaceuticals* (2086) 99: 101-102.  
 91. *Pharmaceuticals* (2087) 100: 101-102.  
 92. *Pharmaceuticals* (2088) 101: 101-102.  
 93. *Pharmaceuticals* (2089) 102: 101-102.  
 94. *Pharmaceuticals* (2090) 103: 101-102.  
 95. *Pharmaceuticals* (2091) 104: 101-102.  
 96. *Pharmaceuticals* (2092) 105: 101-102.  
 97. *Pharmaceuticals* (2093) 106: 101-102.  
 98. *Pharmaceuticals* (2094) 107: 101-102.  
 99. *Pharmaceuticals* (2095) 108: 101-102.  
 100. *Pharmaceuticals* (2096) 109: 101-102.  
 101. *Pharmaceuticals* (2097) 110: 101-102.  
 102. *Pharmaceuticals* (2098) 111: 101-102.  
 103. *Pharmaceuticals* (2099) 112: 101-102.  
 104. *Pharmaceuticals* (2100) 113: 101-102.  
 105. *Pharmaceuticals* (2101) 114: 101-102.  
 106. *Pharmaceuticals* (2102) 115: 101-102.  
 107. *Pharmaceuticals* (2103) 116: 101-102.  
 108. *Pharmaceuticals* (2104) 117: 101-102.  
 109. *Pharmaceuticals* (2105) 118: 101-102.  
 110. *Pharmaceuticals* (2106) 119: 101-102.

[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 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 appropriate and effective care.

3. *Insurance companies* – Insurance companies, including Medicare, Medicaid, and private insurers, play a significant role in the financing of healthcare. They are responsible for paying for the costs of healthcare services, including pharmaceuticals.

4. *Patients* – Patients are the ultimate recipients of healthcare services. They are responsible for paying for their care, either through insurance or out-of-pocket. Patients also play a role in the decision-making process, as they are often involved in choosing between different treatment options.

5. *Government* – The government plays a central role in the healthcare system, both in terms of regulation and financing. The FDA is responsible for approving drugs for sale in the U.S., while Medicare and Medicaid are government programs that provide health insurance to millions of Americans.

6. *Pharmaceutical distributors* – Pharmaceutical distributors, including wholesalers and retailers, are responsible for getting drugs from the manufacturer to the healthcare provider. They play a key role in the distribution chain, and are often the primary point of contact for healthcare providers when it comes to drug orders.

7. *Pharmaceutical manufacturers* – Pharmaceutical manufacturers are the companies that develop and produce drugs. They are responsible for the R&D, manufacturing, and distribution of drugs. They are also responsible for ensuring that their drugs are safe and effective, and for complying with all applicable regulations.

8. *Pharmaceutical associations* – Pharmaceutical associations, such as the Pharmaceutical Research and Manufacturers of America (PhRMA), represent the interests of the pharmaceutical industry. They provide a voice for the industry in government and public affairs, and they also provide a platform for industry members to share information and resources.

9. *Pharmaceutical research* – Pharmaceutical research is the process of discovering and developing new drugs. It is a highly complex and expensive process, and it is the foundation of the pharmaceutical industry. Research is typically conducted by pharmaceutical manufacturers, but it can also be conducted by academic institutions and government agencies.

10. *Pharmaceutical marketing* – Pharmaceutical marketing is the process of promoting and selling drugs. It is a key component of the pharmaceutical industry, and it is responsible for ensuring that drugs are available to healthcare providers and patients. Marketing typically involves a combination of direct and indirect sales, as well as a variety of promotional activities.

11. *Pharmaceutical pricing* – Pharmaceutical pricing is the process of determining the price of a drug. It is a complex process that involves a number of factors, including the cost of R&D, the cost of manufacturing, and the value of the drug to patients. Pricing is typically set by pharmaceutical manufacturers, but it can also be influenced by government and payers.

12. *Pharmaceutical quality* – Pharmaceutical quality is the process of ensuring that drugs are safe, effective, and of high quality. It is a critical component of the pharmaceutical industry, and it is responsible for ensuring that patients receive the best possible care. Quality is typically ensured through a combination of regulatory oversight, industry self-regulation, and patient feedback.

13. *Pharmaceutical innovation* – Pharmaceutical innovation is the process of developing new drugs and new ways of treating disease. It is the lifeblood of the pharmaceutical industry, and it is responsible for ensuring that patients have access to the most advanced and effective treatments. Innovation is typically driven by a combination of scientific discovery, clinical research, and market demand.

14. *Pharmaceutical access* – Pharmaceutical access is the process of ensuring that patients have access to the drugs they need. It is a key challenge for the pharmaceutical industry, and it is responsible for ensuring that drugs are available to all patients, regardless of their ability to pay. Access is typically ensured through a combination of government programs, industry initiatives, and patient advocacy.

15. *Pharmaceutical transparency* – Pharmaceutical transparency is the process of making information about drugs and the pharmaceutical industry more accessible to patients and the public. It is a growing trend in the industry, and it is responsible for ensuring that patients and the public have the information they need to make informed decisions. Transparency is typically achieved through a combination of government requirements, industry self-regulation, and patient advocacy.

16. *Pharmaceutical reform* – Pharmaceutical reform is the process of making changes to the pharmaceutical industry to improve its performance and ensure that it is serving the interests of patients. It is a complex process that involves a number of factors, including regulation, financing, and distribution. Reform is typically driven by a combination of government action, industry self-regulation, and patient advocacy.

17. *Pharmaceutical competition* – Pharmaceutical competition is the process of ensuring that there is a competitive market for drugs. It is a key component of the pharmaceutical industry, and it is responsible for ensuring that patients have access to the most effective and affordable treatments. Competition is typically ensured through a combination of government action, industry self-regulation, and patient advocacy.

18. *Pharmaceutical collaboration* – Pharmaceutical collaboration is the process of working together to develop and distribute drugs. It is a growing trend in the industry, and it is responsible for ensuring that drugs are developed and distributed more efficiently. Collaboration is typically achieved through a combination of government programs, industry initiatives, and patient advocacy.

19. *Pharmaceutical education* – Pharmaceutical education is the process of providing information and training to healthcare providers and patients. It is a key component of the pharmaceutical industry, and it is responsible for ensuring that healthcare providers and patients have the knowledge and skills they need to use drugs safely and effectively. Education is typically provided through a combination of government programs, industry initiatives, and patient advocacy.

20. *Pharmaceutical research and development* – Pharmaceutical research and development is the process of discovering and developing new drugs. It is the foundation of the pharmaceutical industry, and it is responsible for ensuring that patients have access to the most advanced and effective treatments. Research and development is typically conducted by pharmaceutical manufacturers, but it can also be conducted by academic institutions and government agencies.

21. *Pharmaceutical manufacturing* – Pharmaceutical manufacturing is the process of producing drugs. It is a key component of the pharmaceutical industry, and it is responsible for ensuring that drugs are produced in a safe and efficient manner. Manufacturing is typically conducted by pharmaceutical manufacturers, but it can also be conducted by contract manufacturers.

22. *Pharmaceutical distribution* – Pharmaceutical distribution is the process of getting drugs from the manufacturer to the healthcare provider. It is a key component of the pharmaceutical industry, and it is responsible for ensuring that drugs are available to healthcare providers and patients. Distribution is typically conducted by pharmaceutical distributors, but it can also be conducted by direct sales.

23. *Pharmaceutical sales* – Pharmaceutical sales is the process of selling drugs to healthcare providers and patients. It is a key component of the pharmaceutical industry, and it is responsible for ensuring that drugs are sold in a safe and efficient manner. Sales are typically conducted by pharmaceutical sales representatives, but they can also be conducted by direct sales.

24. *Pharmaceutical marketing and promotion* – Pharmaceutical marketing and promotion is the process of promoting and selling drugs. It is a key component of the pharmaceutical industry, and it is responsible for ensuring that drugs are available to healthcare providers and patients. Marketing and promotion typically involve a combination of direct and indirect sales, as well as a variety of promotional activities.

25. *Pharmaceutical pricing and reimbursement* – Pharmaceutical pricing and reimbursement is the process of determining the price of a drug and the amount that payers will reimburse for it. It is a complex process that involves a number of factors, including the cost of R&D, the cost of manufacturing, and the value of the drug to patients. Pricing and reimbursement are typically set by pharmaceutical manufacturers, but they can also be influenced by government and payers.

26. *Pharmaceutical quality and safety* – Pharmaceutical quality and safety is the process of ensuring that drugs are safe, effective, and of high quality. It is a critical component of the pharmaceutical industry, and it is responsible for ensuring that patients receive the best possible care. Quality and safety are typically ensured through a combination of regulatory oversight, industry self-regulation, and patient feedback.

27. *Pharmaceutical innovation and development* – Pharmaceutical innovation and development is the process of developing new drugs and new ways of treating disease. It is the lifeblood of the pharmaceutical industry, and it is responsible for ensuring that patients have access to the most advanced and effective treatments. Innovation and development is typically driven by a combination of scientific discovery, clinical research, and market demand.

28. *Pharmaceutical access and equity* – Pharmaceutical access and equity is the process of ensuring that patients have access to the drugs they need, regardless of their ability to pay. It is a key challenge for the pharmaceutical industry, and it is responsible for ensuring that drugs are available to all patients. Access and equity is typically ensured through a combination of government programs, industry initiatives, and patient advocacy.

29. *Pharmaceutical transparency and accountability* – Pharmaceutical transparency and accountability is the process of making information about drugs and the pharmaceutical industry more accessible to patients and the public. It is a growing trend in the industry, and it is responsible for ensuring that patients and the public have the information they need to make informed decisions. Transparency and accountability is typically achieved through a combination of government requirements, industry self-regulation, and patient advocacy.

30. *Pharmaceutical reform and change* – Pharmaceutical reform and change is the process of making changes to the pharmaceutical industry to improve its performance and ensure that it is serving the interests of patients. It is a complex process that involves a number of factors, including regulation, financing, and distribution. Reform and change is typically driven by a combination of government action, industry self-regulation, and patient advocacy.

31. *Pharmaceutical competition and collaboration* – Pharmaceutical competition and collaboration is the process of ensuring that there is a competitive market for drugs, while also working together to develop and distribute drugs. It is a key component of the pharmaceutical industry, and it is responsible for ensuring that patients have access to the most effective and affordable treatments. Competition and collaboration is typically ensured through a combination of government action, industry self-regulation, and patient advocacy.

32. *Pharmaceutical education and training* – Pharmaceutical education and training is the process of providing information and training to healthcare providers and patients. It is a key component of the pharmaceutical industry, and it is responsible for ensuring that healthcare providers and patients have the knowledge and skills they need to use drugs safely and effectively. Education and training is typically provided through a combination of government programs, industry initiatives, and patient advocacy.

33. *Pharmaceutical research and development and manufacturing* – Pharmaceutical research and development and manufacturing is the process of discovering and developing new drugs, and then producing them. It is the foundation of the pharmaceutical industry, and it is responsible for ensuring that patients have access to the most advanced and effective treatments. Research and development and manufacturing is typically conducted by pharmaceutical manufacturers, but it can also be conducted by academic institutions and government agencies.

34. *Pharmaceutical distribution and sales* – Pharmaceutical distribution and sales is the process of getting drugs from the manufacturer to the healthcare provider, and then selling them. It is a key component of the pharmaceutical industry, and it is responsible for ensuring that drugs are available to healthcare providers and patients. Distribution and sales are typically conducted by pharmaceutical distributors, but they can also be conducted by direct sales.

35. *Pharmaceutical marketing and promotion and pricing and reimbursement* – Pharmaceutical marketing and promotion and pricing and reimbursement is the process of promoting and selling drugs, and determining the price of a drug and the amount that payers will reimburse for it. It is a complex process that involves a number of factors, including the cost of R&D, the cost of manufacturing, and the value of the drug to patients. Marketing and promotion and pricing and reimbursement are typically set by pharmaceutical manufacturers, but they can also be influenced by government and payers.

36. *Pharmaceutical quality and safety and innovation and development* – Pharmaceutical quality and safety and innovation and development is the process of ensuring that drugs are safe, effective, and of high quality, and developing new drugs and new ways of treating disease. It is a critical component of the pharmaceutical industry, and it is responsible for ensuring that patients receive the best possible care. Quality and safety and innovation and development are typically ensured through a combination of regulatory oversight, industry self-regulation, and patient feedback.

37. *Pharmaceutical access and equity and transparency and accountability* – Pharmaceutical access and equity and transparency and accountability is the process of ensuring that patients have access to the drugs they need, regardless of their ability to pay, and making information about drugs and the pharmaceutical industry more accessible to patients and the public. It is a growing trend in the industry, and it is responsible for ensuring that patients and the public have the information they need to make informed decisions. Access and equity and transparency and accountability is typically achieved through a combination of government programs, industry initiatives, and patient advocacy.

38. *Pharmaceutical reform and change and competition and collaboration* – Pharmaceutical reform and change and competition and collaboration is the process of making changes to the pharmaceutical industry to improve its performance and ensure that it is serving the interests of patients, while also ensuring that there is a competitive market for drugs. It is a complex process that involves a number of factors, including regulation, financing, and distribution. Reform and change and competition and collaboration is typically driven by a combination of government action, industry self-regulation, and patient advocacy.

39. *Pharmaceutical education and training and research and development and manufacturing* – Pharmaceutical education and training and research and development and manufacturing is the process of providing information and training to healthcare providers and patients, and then discovering and developing new drugs, and then producing them. It is the foundation of the pharmaceutical industry, and it is responsible for ensuring that patients have access to the most advanced and effective treatments. Education and training and research and development and manufacturing is typically provided through a combination of government programs, industry initiatives, and patient advocacy.

40. *Pharmaceutical distribution and sales and marketing and promotion and pricing and reimbursement* – Pharmaceutical distribution and sales and marketing and promotion and pricing and reimbursement is the process of getting drugs from the manufacturer to the healthcare provider, and then selling them, and promoting and selling drugs, and determining the price of a drug and the amount that payers will reimburse for it. It is a complex process that involves a number of factors, including the cost of R&D, the cost of manufacturing, and the value of the drug to patients. Distribution and sales and marketing and promotion and pricing and reimbursement are typically set by pharmaceutical manufacturers, but they can also be influenced by government and payers.

41. *Pharmaceutical quality and safety and innovation and development and access and equity and transparency and accountability* – Pharmaceutical quality and safety and innovation and development and access and equity and transparency and accountability is the process of ensuring that drugs are safe, effective, and of high quality, and developing new drugs and new ways of treating disease, and ensuring that patients have access to the drugs they need, regardless of their ability to pay, and making information about drugs and the pharmaceutical industry more accessible to patients and the public. It is a growing trend in the industry, and it is responsible for ensuring that patients and the public have the information they need to make informed decisions. Quality and safety and innovation and development and access and equity and transparency and accountability is typically ensured through a combination of regulatory oversight, industry self-regulation, and patient feedback.

42. *Pharmaceutical reform and change and competition and collaboration and education and training and research and development and manufacturing* – Pharmaceutical reform and change and competition and collaboration and education and training and research and development and manufacturing is the process of making changes to the pharmaceutical industry to improve its performance and ensure that it is serving the interests of patients, while also ensuring that there is a competitive market for drugs, and then providing information and training to healthcare providers and patients, and then discovering and developing new drugs, and then producing them. It is the foundation of the pharmaceutical industry, and it is responsible for ensuring that patients have access to the most advanced and effective treatments. Reform and change and competition and collaboration and education and training and research and development

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The musical score for 'The Rose Tree' is presented on five staves. The first staff is the vocal melody, starting with a treble clef and a key signature of one flat (B-flat). The second staff is the piano accompaniment, starting with a bass clef and a key signature of one flat. The third staff is a continuation of the piano accompaniment. The fourth and fifth staves are a continuation of the piano accompaniment. The score includes various musical notations such as notes, rests, and bar lines. The lyrics 'The Rose Tree' are written below the vocal melody.

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 drug approval and oversight.



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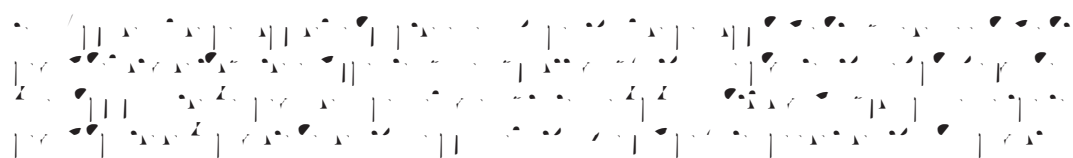






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1. *Pharmaceutical industry* – The pharmaceutical industry is a major contributor to the U.S. economy, with sales of over \$300 billion in 2000. The industry is characterized by high research and development costs, long time to market, and high barriers to entry. The industry is also heavily regulated by the FDA.

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1. *Chlorophyll *a** (mg g<sup>-1</sup> FW) = 12.72 (OD<sub>680</sub>) - 0.85 (OD<sub>750</sub>)  
 2. *Chlorophyll *b** (mg g<sup>-1</sup> FW) = 22.9 (OD<sub>680</sub>) - 18.45 (OD<sub>750</sub>)  
 3. *Chlorophyll *a* + *b** (mg g<sup>-1</sup> FW) = 35.62 (OD<sub>680</sub>) - 19.25 (OD<sub>750</sub>)  
 4. *Carotenoids* (mg g<sup>-1</sup> FW) = 96.16 (OD<sub>440</sub>) - 10.83 (OD<sub>680</sub>) - 28.4 (OD<sub>750</sub>)  
 5. *Total pigments* (mg g<sup>-1</sup> FW) = 131.78 (OD<sub>440</sub>) - 30.08 (OD<sub>680</sub>) - 38.65 (OD<sub>750</sub>)

A large, dense grid of small, stylized human figures in various poses, creating a complex, abstract pattern. The figures are arranged in a way that suggests movement and interaction, with some appearing to be in motion or interacting with each other. The overall effect is a highly detailed and intricate visual composition.

[illegible]

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

Allegretto

1. G4 (whole note)  
2. A4 (half note)  
3. Bb4 (quarter note)  
4. C5 (quarter note)  
5. Bb4 (quarter note)  
6. A4 (quarter note)  
7. G4 (quarter note)  
8. F4 (quarter note)  
9. E4 (quarter note)  
10. D4 (quarter note)  
11. C4 (half note)  
12. Bb4 (quarter note)  
13. A4 (quarter note)  
14. G4 (quarter note)  
15. F4 (quarter note)  
16. E4 (quarter note)

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.

1.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$   
 2.  $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$   
 3.  $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$   
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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.  $\frac{1}{2} \times \frac{1}{64} = \frac{1}{128}$   
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 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.  $\frac{1}{2} \times \frac{1}{17592186044416} = \frac{1}{175921$



[illegible][illegible]

Figure 10: A 10x10 grid of 100 small plots showing the evolution of a system over time. Each plot has a horizontal axis labeled 'Time' and a vertical axis labeled 'Y'. The plots show various patterns of growth and decay, with some plots showing a single peak and others showing multiple peaks or a steady decline. The patterns are more complex in the middle rows and simpler in the top and bottom rows.

[illegible][illegible]

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[illegible][illegible][illegible]

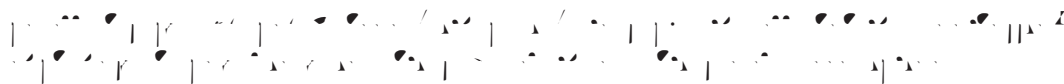
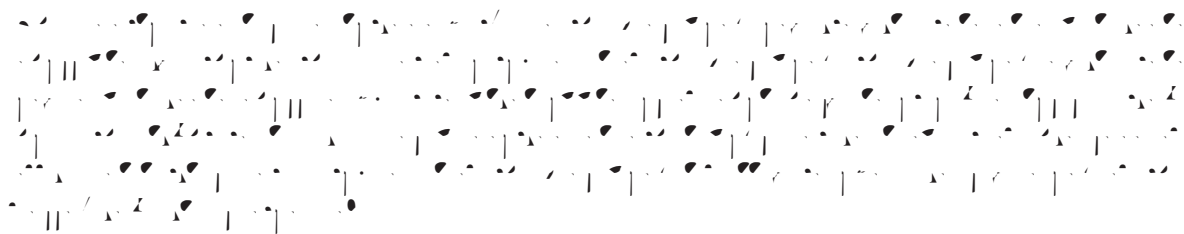
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 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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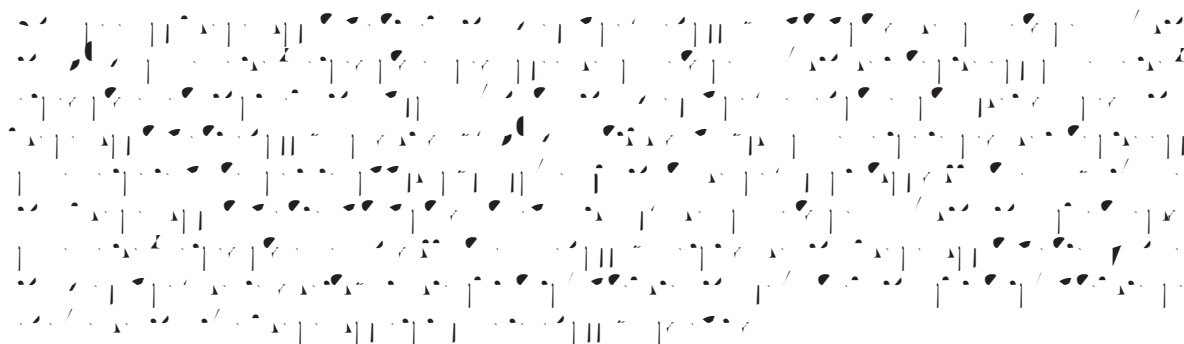
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The Little Boat

Andante

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

*Chlorophyll fluorescence*

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.

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

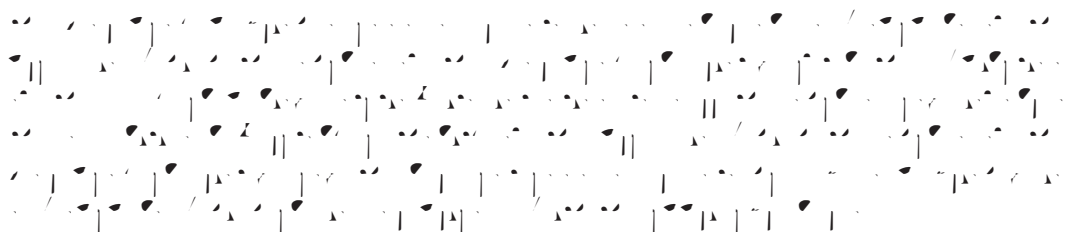
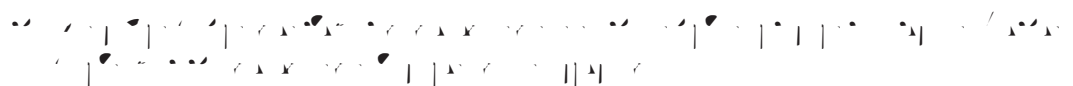
[illegible]

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'.

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**t 3 t t**



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[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 characterized by high R&D costs, long development cycles, and significant regulatory hurdles. The industry is often criticized for high prices and lack of transparency.

[illegible][illegible][illegible]

•  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$   $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$   $\frac{1}{2} \times \frac{1}{8} = \frac{1}{16}$   $\frac{1}{2} \times \frac{1}{16} = \frac{1}{32}$   $\frac{1}{2} \times \frac{1}{32} = \frac{1}{64}$   $\frac{1}{2} \times \frac{1}{64} = \frac{1}{128}$   $\frac{1}{2} \times \frac{1}{128} = \frac{1}{256}$   $\frac{1}{2} \times \frac{1}{256} = \frac{1}{512}$   $\frac{1}{2} \times \frac{1}{512} = \frac{1}{1024}$   $\frac{1}{2} \times \frac{1}{1024} = \frac{1}{2048}$   $\frac{1}{2} \times \frac{1}{2048} = \frac{1}{4096}$   $\frac{1}{2} \times \frac{1}{4096} = \frac{1}{8192}$   $\frac{1}{2} \times \frac{1}{8192} = \frac{1}{16384}$   $\frac{1}{2} \times \frac{1}{16384} = \frac{1}{32768}$   $\frac{1}{2} \times \frac{1}{32768} = \frac{1}{65536}$   $\frac{1}{2} \times \frac{1}{65536} = \frac{1}{131072}$   $\frac{1}{2} \times \frac{1}{131072} = \frac{1}{262144}$   $\frac{1}{2} \times \frac{1}{262144} = \frac{1}{524288}$   $\frac{1}{2} \times \frac{1}{524288} = \frac{1}{1048576}$   $\frac{1}{2} \times \frac{1}{1048576} = \frac{1}{2097152}$   $\frac{1}{2} \times \frac{1}{2097152} = \frac{1}{4194304}$   $\frac{1}{2} \times \frac{1}{4194304} = \frac{1}{8388608}$   $\frac{1}{2} \times \frac{1}{8388608} = \frac{1}{16777216}$   $\frac{1}{2} \times \frac{1}{16777216} = \frac{1}{33554432}$   $\frac{1}{2} \times \frac{1}{33554432} = \frac{1}{67108864}$   $\frac{1}{2} \times \frac{1}{67108864} = \frac{1}{134217728}$   $\frac{1}{2} \times \frac{1}{134217728} = \frac{1}{268435456}$   $\frac{1}{2} \times \frac{1}{268435456} = \frac{1}{536870912}$   $\frac{1}{2} \times \frac{1}{536870912} = \frac{1}{1073741824}$   $\frac{1}{2} \times \frac{1}{1073741824} = \frac{1}{2147483648}$   $\frac{1}{2} \times \frac{1}{2147483648} = \frac{1}{4294967296}$   $\frac{1}{2} \times \frac{1}{4294967296} = \frac{1}{8589934592}$   $\frac{1}{2} \times \frac{1}{8589934592} = \frac{1}{17179869184}$   $\frac{1}{2} \times \frac{1}{17179869184} = \frac{1}{34359738368}$   $\frac{1}{2} \times \frac{1}{34359738368} = \frac{1}{68719476736}$   $\frac{1}{2} \times \frac{1}{68719476736} = \frac{1}{137438953472}$   $\frac{1}{2} \times \frac{1}{137438953472} = \frac{1}{274877906944}$   $\frac{1}{2} \times \frac{1}{274877906944} = \frac{1}{549755813888}$   $\frac{1}{2} \times \frac{1}{549755813888} = \frac{1}{1099511627776}$   $\frac{1}{2} \times \frac{1}{1099511627776} = \frac{1}{2199023255552}$   $\frac{1}{2} \times \frac{1}{2199023255552} = \frac{1}{4398046511104}$   $\frac{1}{2} \times \frac{1}{4398046511104} = \frac{1}{8796093022208}$   $\frac{1}{2} \times \frac{1}{8796093022208} = \frac{1}{17592186044416}$   $\frac{1}{2} \times \frac{1}{17592186044416} = \frac{1}{35184372088832}$   $\frac{1}{2} \times \frac{1}{35184372088832} = \frac{1}{70368744177664}$   $\frac{1}{2} \times \frac{1}{70368744177664} = \frac{1}{140737488355328}$   $\frac{1}{2} \times \frac{1}{140737488355328} = \frac{1}{281474976710656}$   $\frac{1}{2} \times \frac{1}{281474976710656} = \frac{1}{562949953421312}$   $\frac{1}{2} \times \frac{1}{562949953421312} = \frac{1}{1125899906842624}$   $\frac{1}{2} \times \frac{1}{1125899906842624} = \frac{1}{2251799813685248}$   $\frac{1}{2} \times \frac{1}{2251799813685248} = \frac{1}{4503599627370496}$   $\frac{1}{2} \times \frac{1}{4503599627370496} = \frac{1}{9007199254740992}$   $\frac{1}{2} \times \frac{1}{9007199254740992} = \frac{1}{18014398509481984}$   $\frac{1}{2} \times \frac{1}{18014398509481984} = \frac{1}{36028797018963968}$   $\frac{1}{2} \times \frac{1}{36028797018963968} = \frac{1}{72057594037927936}$   $\frac{1}{2} \times \frac{1}{72057594037927936} = \frac{1}{144115188075855872}$   $\frac{1}{2} \times \frac{1}{144115188075855872} = \frac{1}{288230376151711744}$   $\frac{1}{2} \times \frac{1}{288230376151711744} = \frac{1}{576460752303423488}$   $\frac{1}{2} \times \frac{1}{576460752303423488} = \frac{1}{1152921504606846976}$   $\frac{1}{2} \times \frac{1}{1152921504606846976} = \frac{1}{2305843009213693952}$   $\frac{1}{2} \times \frac{1}{2305843009213693952} = \frac{1}{4611686018427387904}$   $\frac{1}{2} \times \frac{1}{4611686018427387904} = \frac{1}{9223372036854775808}$   $\frac{1}{2} \times \frac{1}{9223372036854775808} = \frac{1}{18446744073709551616}$   $\frac{1}{2} \times \frac{1}{18446744073709551616} = \frac{1}{36893488147419103232}$   $\frac{1}{2} \times \frac{1}{36893488147419103232} = \frac{1}{73786976294838206464}$   $\frac{1}{2} \times \frac{1}{73786976294838206464} = \frac{1}{147573952589676412928}$   $\frac{1}{2} \times \frac{1}{147573952589676412928} = \frac{1}{295147905179352825856}$   $\frac{1}{2} \times \frac{1}{295147905179352825856} = \frac{1}{590295810358705651712}$   $\frac{1}{2} \times \frac{1}{590295810358705651712} = \frac{1}{1180591620717411303424}$   $\frac{1}{2} \times \frac{1}{1180591620717411303424} = \frac{1}{2361183241434822606848}$   $\frac{1}{2} \times \frac{1}{2361183241434822606848} = \frac{1}{4722366482869645213696}$   $\frac{1}{2} \times \frac{1}{4722366482869645213696} = \frac{1}{9444732965739290427392}$   $\frac{1}{2} \times \frac{1}{9444732965739290427392} = \frac{1}{18889465931478580854784}$   $\frac{1}{2} \times \frac{1}{18889465931478580854784} = \frac{1}{37778931862957161709568}$   $\frac{1}{2} \times \frac{1}{37778931862957161709568} = \frac{1}{75557863725914323419136}$   $\frac{1}{2} \times \frac{1}{75557863725914323419136} = \frac{1}{151115727451828646838272}$   $\frac{1}{2} \times \frac{1}{151115727451828646838272} = \frac{1}{302231454903657293676544}$   $\frac{1}{2} \times \frac{1}{302231454903657293676544} = \frac{1}{604462909807314587353088}$   $\frac{1}{2} \times \frac{1}{604462909807314587353088} = \frac{1}{1208925819614629174706176}$   $\frac{1}{2} \times \frac{1}{12089258196146291$

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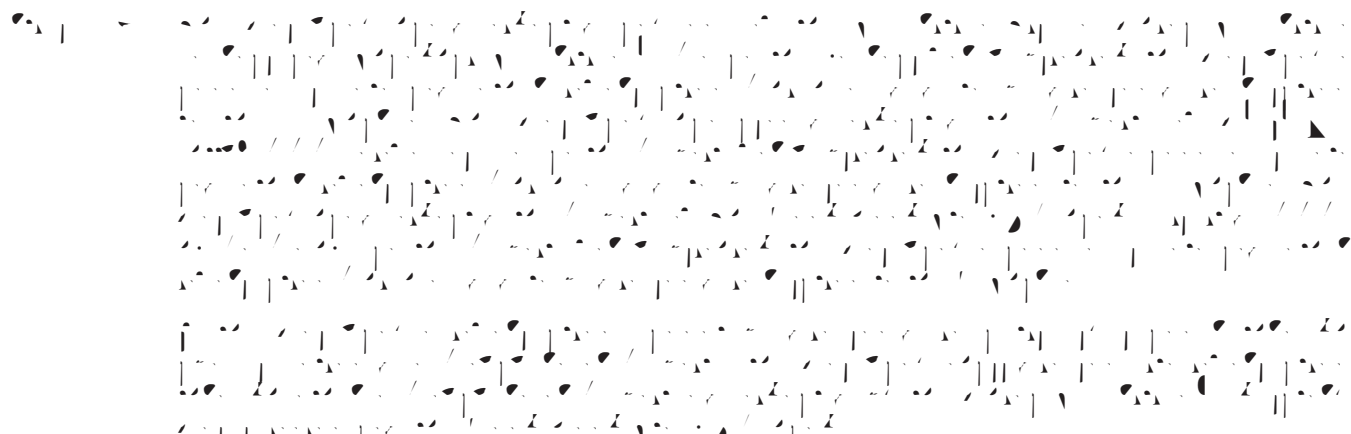
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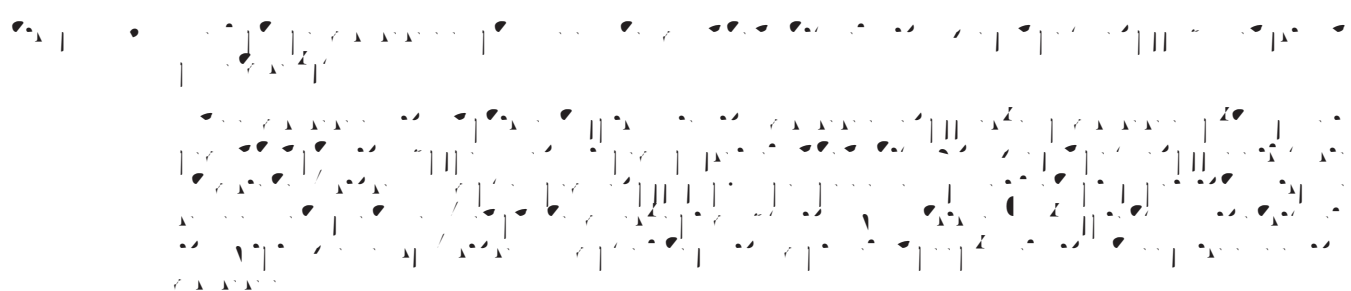






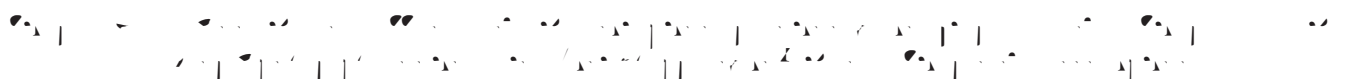
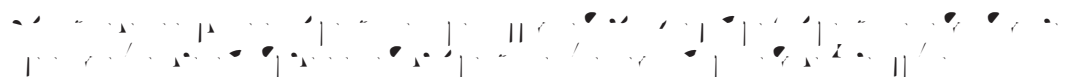
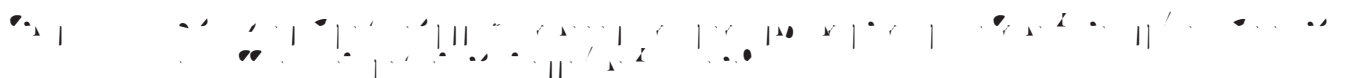








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[illegible]

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. The melody is written on a five-line staff with a treble clef. The key signature has one sharp (F#), and the time signature is 2/4. The melody consists of a series of eighth and sixteenth notes, with some rests. A repeat sign is placed at the beginning of the melody. The lyrics 'The Rose Tree' are written below the staff, aligned with the notes. The score is a simple, folk-like melody.

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.

2. *Healthcare providers* – Healthcare providers, including hospitals, clinics, and individual practitioners, are responsible for delivering medical services to patients. They are often the primary point of contact for patients seeking medical care. Healthcare providers are typically reimbursed by third-party payers, such as insurance companies or the government.

3. *Insurance companies* – Insurance companies play a central role in financing healthcare. They collect premiums from individuals and businesses and use the funds to pay for medical services. Insurance companies often negotiate rates with healthcare providers and pharmaceutical companies to reduce costs.

4. *Government* – The government is a major player in the healthcare system, particularly in the United States. It regulates the industry, sets policy, and often provides funding for healthcare programs. The government is also a major purchaser of healthcare services, particularly for Medicare and Medicaid.

5. *Patients* – Patients are the ultimate recipients of healthcare services. They are responsible for paying for their care, either out-of-pocket or through insurance. Patients often have limited choices when it comes to healthcare providers and services, and they may face financial barriers to accessing care.

6. *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.

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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.  $\frac{1}{8} \times \frac{1}{8} = \frac{1}{64}$   
 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.  $\frac{1}{2} \times \frac{1}{33554432} = \frac{1}{16777216}$   
 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.  $\frac{1}{4} \times \frac{1}{268435456} = \frac{1}{67108864}$   
 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.  $\$

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.  $\frac{1}{2} \times \frac{1}{17592186044416} = \frac{1}{175921$

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[illegible][illegible]

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

5  
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[illegible]

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.

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

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[illegible][illegible][illegible]

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

G4 A4 B♭4 C5 D5 E5 F5 G5 A5 B♭5 C6 D6 E6 F6 G6 A6

[illegible][illegible]

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.

**t 14 t R t**

A large, dense grid of small, stylized human figures in various poses, representing a crowd or a large group of people. The figures are arranged in a regular pattern, filling the entire frame. Each figure is a simple, dark silhouette with a distinct head, torso, and limbs, some with arms raised or in motion. The overall effect is a textured, almost abstract representation of a large gathering of people.

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

Allegretto

16 measures of music.

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