Dividing Unit Fractions (Visual)

Use the box to show a visual example of how to divide a fraction and a whole number.

\( \frac{1}{3} ÷ 4 = ? \)

To solve, start with a whole. Split the whole into 3 pieces and fill in 1 section. This shows the size of \( \frac{1}{3} \). Next split \( \frac{1}{3} \) into 4 groups. This shows the size of each piece. To figure out the size of each piece in comparison to the whole, split the whole into 4 groups. Each piece is \( \frac{1}{12} \) of the whole. Or:

\( \frac{1}{3} ÷ 4 = \frac{1}{12} \)

1. \( \frac{1}{9} ÷ 3 = \)
2. \( \frac{1}{6} ÷ 5 = \)
3. \( \frac{1}{5} ÷ 5 = \)
4. \( \frac{1}{6} ÷ 4 = \)
5. \( \frac{1}{5} ÷ 4 = \)
6. \( \frac{1}{4} ÷ 6 = \)
7. \( \frac{1}{2} ÷ 6 = \)
8. \( \frac{1}{2} ÷ 6 = \)
9. \( \frac{1}{3} ÷ 6 = \)
10. \( \frac{1}{7} ÷ 7 = \)
11. \( \frac{1}{3} ÷ 4 = \)
12. \( \frac{1}{5} ÷ 3 = \)
Dividing Unit Fractions (Visual)

Use the box to show a visual example of how to divide a fraction and a whole number.

\[ \frac{1}{3} \div 4 = ? \]

To solve, start with a whole.

Split the whole into 3 pieces and fill in 1 section.

Now you can see the size of \( \frac{1}{3} \).

Next split \( \frac{1}{3} \) into 4 groups.

This shows the size of each piece.

To figure out the size of each piece in comparison to the whole, split the whole into 4 groups.

Each piece is \( \frac{1}{12} \) of the whole. Or:

\[ \frac{1}{3} \div 4 = \frac{1}{12} \]

1) \[ \frac{1}{9} \div 3 = \]

2) \[ \frac{1}{6} \div 5 = \]

3) \[ \frac{1}{5} \div 5 = \]

4) \[ \frac{1}{6} \div 4 = \]

5) \[ \frac{1}{5} \div 4 = \]

6) \[ \frac{1}{4} \div 6 = \]

7) \[ \frac{1}{2} \div 6 = \]

8) \[ \frac{1}{2} \div 6 = \]

9) \[ \frac{1}{3} \div 6 = \]

10) \[ \frac{1}{7} \div 7 = \]

11) \[ \frac{1}{3} \div 4 = \]

12) \[ \frac{1}{5} \div 3 = \]

**Answers**

1. \( \frac{1}{27} \)
2. \( \frac{1}{30} \)
3. \( \frac{1}{25} \)
4. \( \frac{1}{24} \)
5. \( \frac{1}{20} \)
6. \( \frac{1}{24} \)
7. \( \frac{1}{12} \)
8. \( \frac{1}{12} \)
9. \( \frac{1}{18} \)
10. \( \frac{1}{49} \)
11. \( \frac{1}{12} \)
12. \( \frac{1}{15} \)