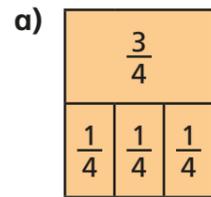


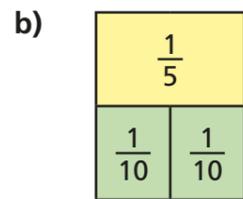
Divide a fraction by a unit fraction

1 Use the bar models to answer the questions and complete the calculations.



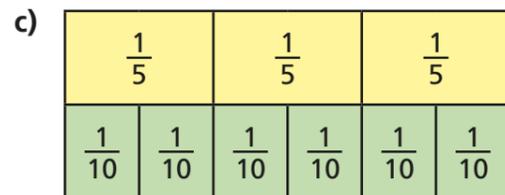
How many quarters are there in three-quarters?

$$\frac{3}{4} \div \frac{1}{4} = \square$$



How many tenths are there in one-fifth?

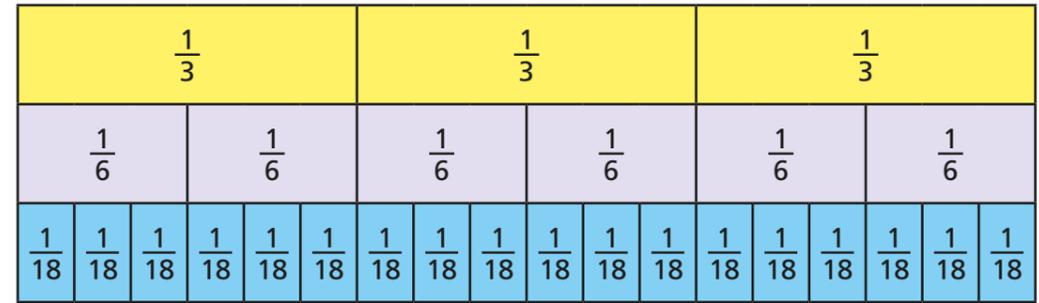
$$\frac{1}{5} \div \frac{1}{10} = \square$$



How many tenths are there in three-fifths?

$$\frac{3}{5} \div \frac{1}{10} = \square$$

2 Use the fraction wall to complete the calculations.



a) $\frac{1}{3} \div \frac{1}{6} = \square$

d) $\frac{2}{3} \div \frac{1}{18} = \square$

b) $\frac{1}{3} \div \frac{1}{18} = \square$

e) $\frac{5}{3} \div \frac{1}{18} = \square$

c) $\frac{2}{3} \div \frac{1}{6} = \square$

Use the fraction wall, and the fact that $\frac{2}{18} = \frac{1}{9}$, to help you complete the calculations.

f) $\frac{1}{3} \div \frac{1}{9} = \square$

g) $\frac{2}{3} \div \frac{1}{9} = \square$

3 Complete the calculations.

Draw diagrams to help you.

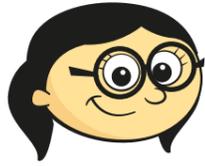
a) $\frac{2}{3} \div \frac{1}{6} = \square$

b) $\frac{2}{3} \div \frac{1}{12} = \square$

c) $\frac{3}{4} \div \frac{1}{12} = \square$



4



$\frac{1}{2} \div \frac{1}{8}$ is
greater than $\frac{1}{2} \div \frac{1}{4}$

Draw diagrams to show Annie is correct.

5

Write $<$, $>$ or $=$ to compare the statements.

$$\frac{1}{3} \div \frac{1}{12} \bigcirc \frac{1}{3} \div \frac{1}{18}$$

$$\frac{1}{3} \div \frac{1}{12} \bigcirc \frac{1}{4} \div \frac{1}{12}$$

$$\frac{1}{3} \div \frac{1}{12} \bigcirc \frac{2}{3} \div \frac{1}{12}$$

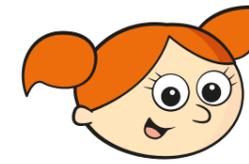
$$\frac{1}{3} \div \frac{1}{12} \bigcirc \frac{1}{3} \times \frac{1}{12}$$



6

Alex divides by unit fractions using equivalent fractions.

Here is Alex's method.



$$\begin{aligned} \frac{2}{3} \div \frac{1}{9} \\ &= \frac{6}{9} \div \frac{1}{9} \\ &= 6 \div 1 \\ &= 6 \end{aligned}$$

Use Alex's method to complete the calculations.

$$\text{a) } \frac{3}{4} \div \frac{1}{8} = \frac{\square}{8} \div \frac{1}{8} = \square \div 1 = \square$$

$$\text{b) } \frac{3}{4} \div \frac{1}{12} = \frac{\square}{\square} \div \frac{1}{12} = \square \div 1 = \square$$

$$\text{c) } \frac{3}{4} \div \frac{1}{20} = \frac{\square}{\square} \div \frac{1}{20} = \square \div \square = \square$$

7

Solve the equations.

$$\text{a) } \frac{1}{15} a = \frac{1}{3}$$

$$\text{c) } \frac{1}{33} c = \frac{6}{11}$$

$$a = \square$$

$$c = \square$$

$$\text{b) } \frac{1}{10} b = \frac{1}{2}$$

$$\text{d) } \frac{1}{12} d = \frac{5}{6}$$

$$b = \square$$

$$d = \square$$

