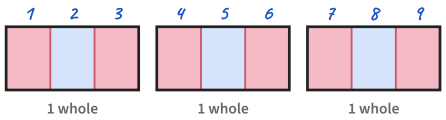
Dividing fractions

ANSWERS

1

Work out $3 \div \frac{1}{3}$.



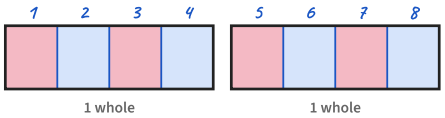
9 thirds fit into 3

$3 \div \frac{1}{3} = 3 \times 3 = 9$

Answer 9

2

Work out $2 \div \frac{1}{4}$. Cut each bar into quarters first.



8 quarters fit into 2

$2 \div \frac{1}{4} = 2 \times 4 = 8$

Answer 8

3

Work out $\frac{1}{2} \div \frac{3}{5}$.

Keep, change, flip: $\frac{1}{2} \times \frac{5}{3}$

$= \frac{5}{6}$

Answer $\frac{5}{6}$

4

Work out $\frac{4}{9} \div \frac{2}{3}$. Give your answer in its simplest form.

Keep, change, flip: $\frac{4}{9} \times \frac{3}{2}$

$= \frac{12}{18}$

Simplest form: $\frac{2}{3}$

Answer $\frac{2}{3}$

5

Work out each. Give your answers in their simplest form.

(a) $6 \div \frac{3}{4}$ (b) $\frac{2}{5} \div 4$

$\frac{6}{1} \times \frac{4}{3} = \frac{24}{3}$, $\frac{2}{5} \times \frac{1}{4} = \frac{2}{20}$

(a) 8

(b) $\frac{1}{10}$

6

Ben works out $\frac{3}{5} \div \frac{2}{3}$.

He writes $\frac{5}{3} \times \frac{2}{3} = \frac{10}{9}$.

Explain his mistake. Then work out the right answer.

he flipped the first fraction, $\frac{3}{5} \times \frac{3}{2}$

Answer $\frac{9}{10}$

7

Mo has 6 pizzas. Each person eats $\frac{3}{8}$ of a pizza. How many people can Mo feed?

$\frac{6}{1} \times \frac{8}{3} = \frac{48}{3} = 16$

Answer 16 people

8

Work out $3\frac{1}{3} \div 1\frac{1}{9}$.

$\frac{10}{3} \times \frac{9}{10} = \frac{90}{30}$

Answer 3

Dividing fractions *further practice*

ANSWERS

9

Work out $\frac{7}{10} \div \frac{1}{5}$. Give your answer as a mixed number.

$\frac{7}{10} \times \frac{5}{1} = \frac{35}{10} = \frac{7}{2}$

Answer $3\frac{1}{2}$

10

Work out $\frac{5}{6} \div 5$. Give your answer in its simplest form.

$\frac{5}{6} \times \frac{1}{5} = \frac{5}{30}$

Answer $\frac{1}{6}$

11

Write down the reciprocal of each number.

(a) $\frac{3}{7}$ (b) 5 (c) $\frac{1}{9}$

(a) $\frac{7}{3}$

(b) $\frac{1}{5}$

(c) 9

12

A $2\frac{1}{2}$ hour revision session is split into slots of $\frac{1}{6}$ of an hour. How many slots are there?

$\frac{5}{2} \times \frac{6}{1} = \frac{30}{2}$

Answer 15 slots

13

Find the missing number.

$\square \div \frac{1}{4} = 10$

$10 \times \frac{1}{4} = \frac{10}{4}$

Answer $2\frac{1}{2}$

14

Amir says $\frac{2}{9} \div \frac{4}{9} = 2$. Is he right? Explain how you know.

$\frac{2}{9}$ is less than $\frac{4}{9}$, so less than 1,

$\frac{2}{9} \times \frac{9}{4} = \frac{18}{36}$

Answer No, it is $\frac{1}{2}$

15

This rectangle has an area of $\frac{3}{4}$ m^2.

One side is $1\frac{1}{2}$ m long. Find the length of the other side, w.



$\frac{3}{4} \times \frac{2}{3} = \frac{6}{12}$

Answer $\frac{1}{2}$ m

16

A baker has 5 kg of flour.

Each loaf needs $\frac{3}{8}$ kg.

How many whole loaves can she make?

How much flour is left over?

$5 \times \frac{8}{3} = \frac{40}{3} = 13\frac{1}{3}$

loaves 13

left $\frac{1}{8}$ kg