

One Quantity as a Fraction of Another

ANSWERS

1

Write 15 as a fraction of 40.
Give your answer in its simplest form.

15



40



Same units first. Then split into equal blocks.

$$\frac{15}{40} = \frac{3}{8}$$

2

Write 18 as a fraction of 45.
Give your answer in its simplest form.

18



45



$$\frac{18}{45} = \frac{2}{5}$$

3

Write 12 as a fraction of 28.
Give your answer in its simplest form.

12



28



$$\frac{12}{28} = \frac{3}{7}$$

4

Write 35 as a fraction of 50.
Give your answer in its simplest form.

35



50



$$\frac{35}{50} = \frac{7}{10}$$

5

Write 40p as a fraction of £2.
Give your answer in its simplest form.

40p



£2 = 200p



$$\frac{40}{200} = \frac{1}{5}$$

6

Write 45 minutes as a fraction of 2 hours.
Give your answer in its simplest form.

45 minutes



2 hours = 120 minutes



$$\frac{45}{120} = \frac{3}{8}$$

7

Write 50 as a fraction of 20.
Give your answer in its simplest form.

50



20



$$\frac{50}{20} = \frac{5}{2}$$

Answer

8

Write £3 as a fraction of 80p.
Give your answer in its simplest form.

£3 = 300p



80p



$$\frac{300}{80} = \frac{15}{4}$$

Answer

One Quantity as a Fraction of Another *further practice*

ANSWERS

9

Write 27 as a fraction of 63.
Give your answer in its simplest form.

$$\frac{27}{63}, \text{ divide both by } 9$$

$$\frac{3}{7}$$

Answer

10

There are 32 pupils in a class.
12 of them have a pet. What fraction of the class have a pet? Give your answer in its simplest form.

$$\frac{12}{32}, \text{ divide both by } 4$$

$$\frac{3}{8}$$

Answer

11

Write 350 m as a fraction of 2 km.
Give your answer in its simplest form.

$$2 \text{ km} = 2000 \text{ m}, \frac{350}{2000}$$

$$\frac{7}{40}$$

Answer

12

A film lasts 2 hours. Mia has watched 50 minutes of it. What fraction of the film does she still have to watch?

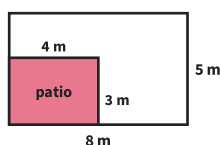
$$2 \text{ hours} = 120 \text{ minutes}, 120 - 50 = 70, \frac{70}{120}$$

$$\frac{7}{12}$$

Answer

13

A garden is a rectangle. A patio covers part of it. What fraction of the garden is covered by the patio?



$$\text{patio } 4 \times 3 = 12 \text{ m}^2, \text{ garden } 8 \times 5 = 40 \text{ m}^2, \frac{12}{40}$$

$$\frac{3}{10}$$

Answer

14

Ola scored 18 out of 24 in a maths test and 20 out of 25 in a science test. In which test did she score the greater fraction of the marks? Show how you know.

$$\frac{18}{24} = \frac{3}{4} = \frac{15}{20}, \frac{20}{25} = \frac{4}{5} = \frac{16}{20}$$

$$\text{Science}$$

Answer

15

Kit practises the piano for 40 minutes every day. What fraction of a day is this? Give your answer in its simplest form.

$$1 \text{ day} = 24 \times 60 = 1440 \text{ minutes}, \frac{40}{1440}$$

$$\frac{1}{36}$$

Answer

16

Tom says 30p as a fraction of £3 is $\frac{30}{3} = 10$. Is he right? Explain.

$$\text{the units must match, } £3 = 300\text{p}, \frac{30}{300}$$

$$\text{No, it is } \frac{1}{10}$$

Answer