One quantity as a fraction of another

ANSWERS

1

Write 12 as a fraction of 20.
Give your answer in its simplest form.

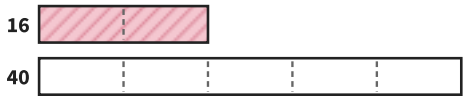


Fraction $\frac{12}{20} \div 4 = \frac{3}{5}$

Answer 3/5

2

Write 16 as a fraction of 40.
Give your answer in its simplest form.



Fraction $\frac{16}{40} \div 8 = \frac{2}{5}$

Answer 2/5

3

A class has 28 students. 21 of them walk to school. What fraction of the class walk to school?



Fraction $\frac{21}{28} \div 7 = \frac{3}{4}$

Answer 3/4

4

Write 18 minutes as a fraction of 1 hour. Give your answer in its simplest form.



Same units: 1 hour = 60 minutes

Fraction: 18/60

Simplest form: 3/10

Answer 3/10

5

Write 80 cm as a fraction of 3 m.
Give your answer in its simplest form.



Same units: 3 m = 300 cm

Fraction: 80/300

Simplest form: 4/15

Answer 4/15

6

Kofi's walk to school takes 40 minutes. Bea's takes 25 minutes. Write Kofi's time as a fraction of Bea's time.



Fraction: 40/25

Simplest form: 8/5

Answer 8/5

7

Write 45 as a fraction of 27.
Dan writes 27/45 = 3/5.
Explain his mistake, then work out the right answer.

he put the smaller number on top

45 is bigger, so the answer is bigger than 1

45/27, divide both by 9

Answer 5/3

8

Tia earns £48. She spends £18 and saves the rest. What fraction of her earnings does she save?
Give your answer in its simplest form.

£48 – £18 = £30 saved

30/48, divide both by 6

Answer 5/8

One quantity as a fraction of another *further practice*

ANSWERS

9

Write 36 as a fraction of 84.
Give your answer in its simplest form.

36/84, divide both by 12

Answer 3/7

10

Write 400 m as a fraction of 2.5 km.
Give your answer in its simplest form.

2.5 km = 2500 m

400/2500, divide both by 100

Answer 4/25

11

Write 2 hours 15 minutes as a fraction of 3 hours. Give your answer in its simplest form.

135 minutes and 180 minutes

135/180, divide both by 45

Answer 3/4

12

A book has 240 pages. Asha has read 96 pages. What fraction of the book does she still have to read?

240 – 96 = 144 pages

144/240, divide both by 48

Answer 3/5

13

Write 1.5 kg as a fraction of 900 g.
Give your answer in its simplest form.

1.5 kg = 1500 g

1500/900, divide both by 300

Answer 5/3

14

In a quiz, Ben scores 21 out of 28 and Cara scores 24 out of 30. Who scores the bigger fraction of the marks?
Show how you know.

Ben: 21/28 = 3/4 = 15/20

Cara: 24/30 = 4/5 = 16/20

Answer Cara

15

A fruit bowl has 6 apples, 9 pears and 5 bananas. What fraction of the fruit are pears?

6 + 9 + 5 = 20 pieces

Answer 9/20

16

Ruth says that 4 as a fraction of 10 is the same as 10 as a fraction of 4.
Is she right? Explain.

4/10 = 2/5, less than 1

10/4 = 5/2, bigger than 1

Answer No