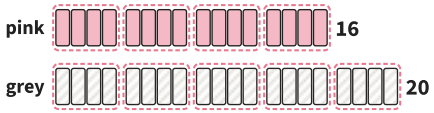
Simplifying ratios

ANSWERS

1

Write the ratio **16 : 20** in its simplest form.



HCF of 16 and 20 is 4

16 : 20

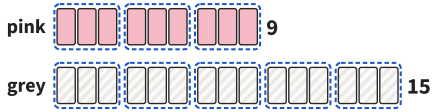
÷4 ÷4

4 : 5

Answer 4 : 5

2

Write the ratio **9 : 15** in its simplest form.



HCF of 9 and 15 is 3

9 : 15

÷3 ÷3

3 : 5

Answer 3 : 5

3

Write the ratio **24 : 32** in its simplest form.

HCF of 24 and 32 is 8

24 : 32

÷8 ÷8

3 : 4

Answer 3 : 4

4

Write the ratio **36 : 90** in its simplest form.

36 : 90

÷18 ÷18

2 : 5

Answer 2 : 5

5

Write the ratio **12 : 30 : 18** in its simplest form.

HCF of 12 and 30 and 18 is 6

12 : 30 : 18

÷6 ÷6 ÷6

2 : 5 : 3

Answer 2 : 5 : 3

6

A bakery sells 42 brownies and 28 flapjacks. Write the ratio of flapjacks to brownies in its simplest form.

28 : 42, HCF 14

Answer 2 : 3

7

Write the ratio **2 kg : 250 g** in its simplest form.

2 kg = 2000 g, 2000 : 250, ÷ 250

Answer 8 : 1

8

Write the ratio **5 : 12** in the form **1 : n**.

÷ 5, 12 ÷ 5 = 2.4

Answer 1 : 2.4

Simplifying ratios *further practice*

ANSWERS

9

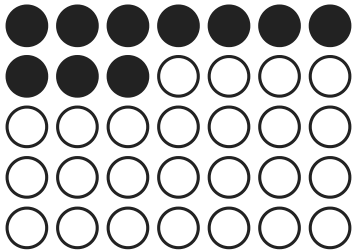
Write the ratio **56 : 72** in its simplest form.

HCF of 56 and 72 is 8

Answer 7 : 9

10

Write the ratio of white counters to black counters in its simplest form.



25 : 10, ÷ 5

Answer 5 : 2

11

A tray of herbs has 24 basil, 36 mint and 16 parsley plants. Write the ratio basil : mint : parsley in its simplest form.

HCF of 24, 36 and 16 is 4

Answer 6 : 9 : 4

12

A film lasts 1 hour 30 minutes.
Its adverts last 6 minutes.
Write the ratio of advert time to film time in its simplest form.

1 hour 30 minutes = 90 minutes,
6 : 90

Answer 1 : 15

13

Mo has £60. He spends £45 and saves the rest. Write the ratio of the money he spends to the money he saves in its simplest form.

£60 – £45 = £15, 45 : 15

Answer 3 : 1

14

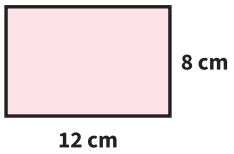
A model car is 8 cm long. The real car is 4 m long. Write the ratio of the model's length to the real length in the form $1 : n$.

4 m = 400 cm, 8 : 400, ÷ 8

Answer 1 : 50

15

Write the ratio of the length of this rectangle to its perimeter in its simplest form.



perimeter = 40 cm, 12 : 40

Answer 3 : 10

16

Jay says that 18 : 24 and 30 : 40 are the same ratio. Is he right?
Show how you know.

÷ 6 gives 3 : 4, ÷ 10 gives 3 : 4

Answer Yes, both are 3 : 4