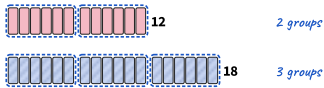


Simplifying Ratios

ANSWERS

1

Write the ratio 12 : 18 in its simplest form.



HCF of 12 and 18 is 6

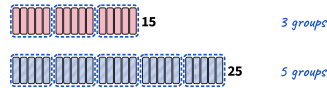
12 : 18

$$\begin{array}{c} \div 6 \quad \div 6 \\ \boxed{2} : \boxed{3} \end{array}$$

Answer 2 : 3

2

Write the ratio 15 : 25 in its simplest form.



HCF of 15 and 25 is 5

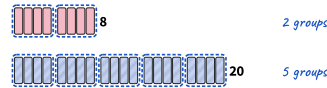
15 : 25

$$\begin{array}{c} \div 5 \quad \div 5 \\ \boxed{3} : \boxed{5} \end{array}$$

Answer 3 : 5

3

Write the ratio 8 : 20 in its simplest form.



HCF of 8 and 20 is 4

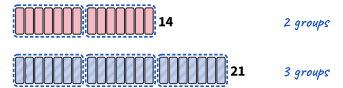
8 : 20

$$\begin{array}{c} \div 4 \quad \div 4 \\ \boxed{2} : \boxed{5} \end{array}$$

Answer 2 : 5

4

Write the ratio 14 : 21 in its simplest form.



HCF of 14 and 21 is 7

14 : 21

$$\begin{array}{c} \div 7 \quad \div 7 \\ \boxed{2} : \boxed{3} \end{array}$$

Answer 2 : 3

5

Write the ratio 24 : 40 in its simplest form.

HCF of 24 and 40 is 8

24 : 40

$$\begin{array}{c} \div 8 \quad \div 8 \\ \boxed{3} : \boxed{5} \end{array}$$

Answer 3 : 5

6

Write the ratio 45 : 30 in its simplest form.

HCF of 45 and 30 is 15

45 : 30

$$\begin{array}{c} \div 15 \quad \div 15 \\ \boxed{3} : \boxed{2} \end{array}$$

Answer 3 : 2

7

A class has 12 boys and 18 girls.

Write the ratio of boys to girls in its simplest form.

12 : 18, divide both by 6

Answer 2 : 3

8

Which of these is not the same as 3 : 4?

9 : 12 15 : 20 12 : 15

12 : 15 simplifies to 4 : 5

Answer 12 : 15

Simplifying Ratios further practice

ANSWERS

9

Write the ratio 36 : 84 in its simplest form.

HCF of 36 and 84 is 12

Answer 3 : 7

10

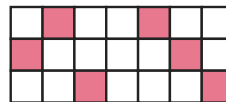
Write the ratio 12 : 18 : 30 in its simplest form.

divide all three by 6

Answer 2 : 3 : 5

11

Write the ratio of shaded tiles to unshaded tiles in its simplest form.



6 : 15, divide both by 3

Answer 2 : 5

12

A swim lasts 45 minutes and a bike ride lasts 2 hours. Write the ratio of swim time to bike ride time in its simplest form.

2 hours = 120 minutes, 45 : 120

Answer 3 : 8

13

A youth club has 40 members. 16 of them are aged under 12. Write the ratio of members aged under 12 to members aged 12 or over in its simplest form.

40 - 16 = 24, 16 : 24

Answer 2 : 3

14

Write the ratio of the area of rectangle A to the area of rectangle B in its simplest form.



6 × 4 = 24, 9 × 6 = 54, 24 : 54

Answer 4 : 9

15

A paint colour is made from 1.5 litres of white, 750 ml of blue and 250 ml of yellow. Write the ratio white : blue : yellow in its simplest form.

1.5 litres = 1500 ml,
1500 : 750 : 250

Answer 6 : 3 : 1

16

Ana writes the ratio 8 : 12 as 4 : 6 and says it is now in its simplest form. Is she right? Explain.

4 and 6 can both still be divided by 2

Answer No, it is 2 : 3