

# Simplifying ratios

Maths

Mrs Dennett



# Simplifying ratios

1. Simplify each of the following ratios.

a)  $2 : 8$

b)  $12 : 6$

c)  $6 : 12$

d)  $36 : 48$

e)  $5 : 10 : 25$

2. Simplify the following ratios.

a)  $200 \text{ g} : 1 \text{ kg}$

b)  $6 \text{ hours} : 1 \text{ day}$

c)  $18 \text{ minutes} : 100 \text{ seconds}$

3. Write down 3 ratios that are equivalent to  $4 : 7$



# Simplifying ratios

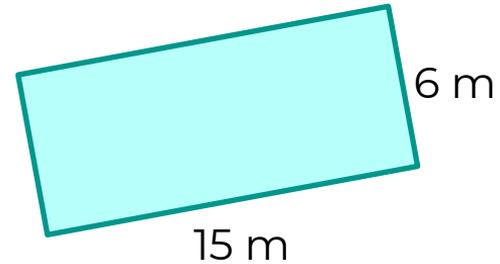
4. In a school there are 120 children and 20 teachers.

What is the ratio of children to teachers?

5. In a bag there are 32 green counters, 56 blue counters and 100 yellow counters.

What is the ratio of green to blue to yellow counters.

6. Here is a rectangle.



a) What is the ratio of the length to the width?

b) What is the ratio of the perimeter of the rectangle to the width?



# Answers



# Simplifying ratios

1. Simplify each of the following ratios.

a) 2 : 8

1 : 4

b) 12 : 6

2 : 1

c) 6 : 12

1 : 2

d) 36 : 48

3 : 4

e) 5 : 10 : 25

1 : 2 : 5

2. Simplify the following ratios.

a) 200 g : 1 kg

1 : 5

b) 6 hours : 1 day

1 : 4

c) 18 minutes : 100 seconds

54 : 5

3. Write down 3 ratios that are equivalent to 4 : 7

e.g. 8 : 14

12 : 21

40 : 70



# Simplifying ratios

4. In a school there are 120 children and 20 teachers.

What is the ratio of children to teachers?

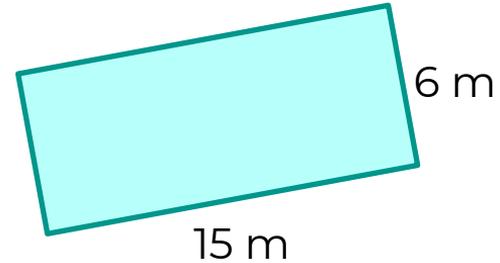
**6:1**

5. In a bag there are 32 green counters, 56 blue counters and 100 yellow counters.

What is the ratio of green to blue to yellow counters.

**8:14:25**

6. Here is a rectangle.



a) What is the ratio of the length to the width? **5:2**

b) What is the ratio of the perimeter of the rectangle to the width? **7:1**

