

# 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

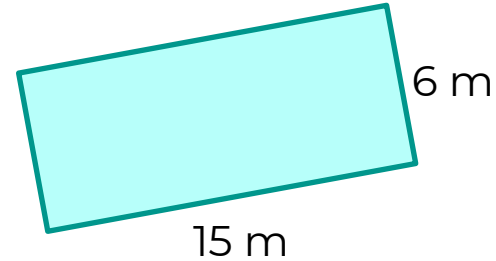
4. In a school there are 120 children and 20 teachers.

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)  $200 \text{ g} : 1 \text{ kg}$                  $1 : 5$
- b)  $6 \text{ hours} : 1 \text{ day}$              $1 : 4$
- c)  $18 \text{ minutes} : 100 \text{ seconds}$      $54 : 5$

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?

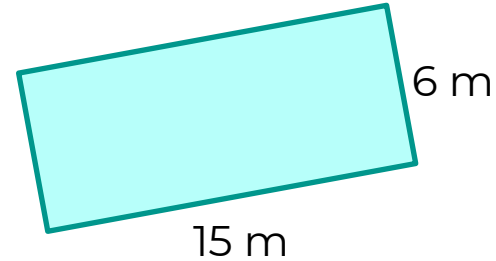
6:1

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

