

Find a part given a part

Maths

Mrs Dennett



Find a part given a part

1. Emily and James share some sweets in the ratio 3 : 7

Emily gets 15 sweets.

How many sweets does James get?

You can use the bar model to help you.

Emily

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James

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2. The side lengths of a triangle are in the ratio 2 : 5 : 6

The length of the smallest side is 12 cm

a) Find the length of the longest side.

b) Calculate the perimeter of the triangle.



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3. On a train there are adults and children in the ratio of 5 : 2
There are 36 children on the train.
10% of the adults leave the train at the next stop.
How many adults are left on the train?

4. Here is a rectangle.



The ratio of the length to the width is 5 : 3.

a) Find the length of the rectangle.

b) Write the ratio of the width to the perimeter in its simplest form.



Answers



Find a part given a part

1. Emily and James share some sweets in the ratio 3 : 7

Emily gets 15 sweets.

How many sweets does James get?

You can use the bar model to help you.

Emily

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James

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James gets 35 sweets.

2. The side lengths of a triangle are in the ratio 2 : 5 : 6

The length of the smallest side is 12 cm

a) Find the length of the longest side.

36 cm

b) Calculate the perimeter of the triangle.

78 cm



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3. On a train there are adults and children in the ratio of 5 : 2
There are 36 children on the train.
10% of the adults leave the train at the next stop.
How many adults are left on the train?

There are 81 adults left on the train.

4. Here is a rectangle.



The ratio of the length to the width is 5 : 3.

a) Find the length of the rectangle.

17.5 cm

b) Write the ratio of the width to the perimeter in its simplest form.

3 : 16

