Find the total or difference given a part

Maths

Mrs Dennett

Find the total or difference given a part

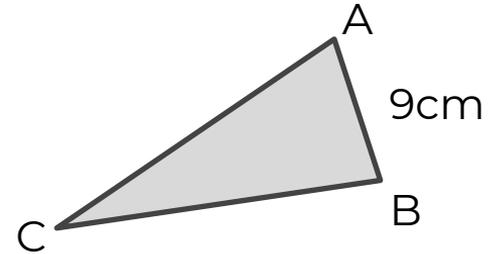1. Gracie and Mo share some stickers in the ratio 3 : 4
Mo gets 20 stickers.
a) How many more stickers does Mo have than Gracie?

b) How many stickers did they have to begin with?

c) If Mo gives Gracie 10 of his stickers what is the new ratio of Gracie's stickers to Mo's?

2. ABC is a triangle.

AB : BC = 2 : 7

a) How much longer is BC than AB?

b) AC is 5 cm longer than BC.
Work out the perimeter of ABC.

Find the total or difference given a part

3. The ratio of apples to bananas in a box is 6 : 11
There are 55 bananas in the box.

a) How many pieces of fruit are in the box?

b) John eats 10 apples. What is the new ratio of apples to bananas?

4. The table shows the ratio of the time in a day that Mike spends awake to the time asleep for Monday and Saturday.

Monday	Saturday
2 : 1	7 : 5

How much more time does he sleep on Saturday than Monday?

Answers

Find the total or difference given a part
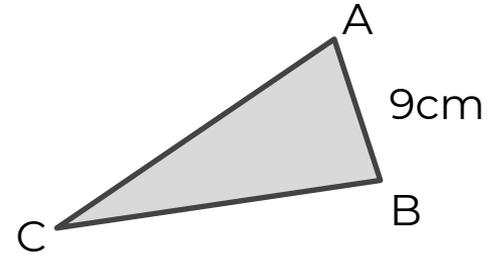
1. Gracie and Mo share some stickers in the ratio 3 : 4
Mo gets 20 stickers.
a) How many more stickers does Mo have than Gracie?   5

b) How many stickers did they have to begin with?   35

c) If Mo gives Gracie 10 of his stickers what is the new ratio of Gracie's stickers to Mo's?   5 : 2

2. ABC is a triangle.

A

9cm

B

C

AB : BC = 2 : 7

a) How much longer is BC than AB?
22.5 cm

b) AC is 5 cm longer than BC.
Work out the perimeter of ABC.
77 cm

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3. The ratio of apples to bananas in a box is 6 : 11
There are 55 bananas in the box.

a) How many pieces of fruit are in the box?   85

b) John eats 10 apples. What is the new ratio of apples to bananas?

 4 : 11

4. The table shows the ratio of the time in a day that Mike spends awake to the time asleep for Monday and Saturday.

Monday	Saturday
2 : 1	7 : 5

How much more time does he sleep on Saturday than Monday?

 2 hours