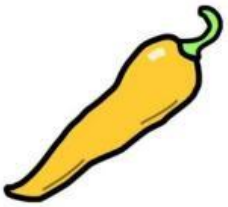


Ratio and Proportion



Ratio problems/Recipes

1a. Shape A has been enlarged by different scale factors to make shapes B and C.

Shape	Length	Width
A	5cm	7cm
B		14cm
C	50cm	

Calculate the missing measurements.

VF

1b. Shape A has been reduced by different scale factors to make shapes B and C.

Shape	Length	Width
A	30cm	80cm
B	15cm	
C		8cm

Calculate the missing measurements.

VF

4a. Mia is buying some buttons.

The ratio of pink to gold buttons is 10:8.

If she buys 20 pink buttons, how many gold buttons will she need?



4b. Louis is buying some buttons.

The ratio of red to blue buttons is 3:7.

If he buys 30 red buttons, how many blue buttons will he need?



1. Here is a recipe for ten biscuits. How much sugar would be needed to make twenty biscuits?



<u>10 biscuits</u>

400 g plain flour



200 g sugar



1 medium egg



200 g butter



<u>20 biscuits</u>

800 g plain flour



_____ g sugar



2 medium eggs



400 g butter

VF

LIVEWORKSHEETS

2a. True or false?

I need 1 banana for every 3 apples.

If I have 8 pieces of fruit, I will have 3 apples.

D

VF

2b. True or false?

I need 2 apples for every 3 oranges.

If I have 10 pieces of fruit, I will have 4 apples.

D

VF

3. True or false?

At Bart's Bakery, I can buy 2 cakes for £4.

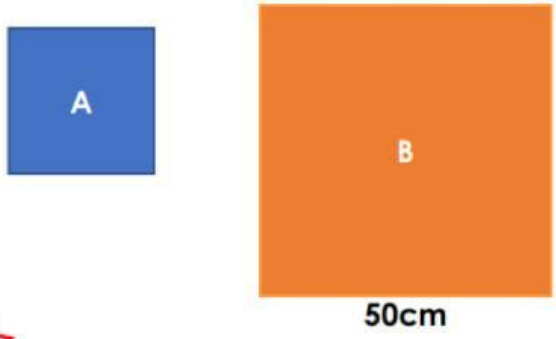
At Crazy Cakes, I can buy 10 cakes for £20.

Cakes are cheaper if I buy them from Crazy Cakes.

Explain your answer.

3a. Below are 2 squares. Square B has been enlarged from square A by a scale factor of 10.

Calculate the perimeter of each square.



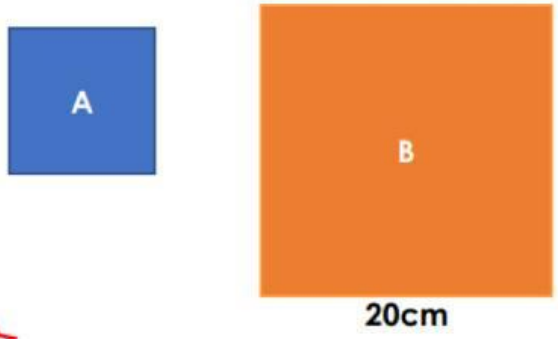
D

Not to scale

PS

3b. Below are 2 squares. Square B has been enlarged from square A by a scale factor of 2.

Calculate the perimeter of each square.



D

Not to scale

PS

LIVEWORKSHEETS