More challenging!

Ratio and Proportion

1 A bar of chocolate weighs 50 g.

How much will 7 bars of chocolate weigh?

g

1 mark

2 1 litre of orange paint costs £15.

How many litres of orange paint could you buy with £345?

litres

1 mark

3 A box of 4 muffins costs £3.60.

How much will 24 muffins cost?

£

1 mark

4 Joanna bought 6 sports drinks for £2.40.

How much does 1 sports drink cost?

£

1 mark

How much would 4 sports drinks cost?

£

1 mark

Ratio and Proportion

5 Use the shapes below to complete the following sentences.

The ratio of shaded to unshaded shapes is ☐ : ☐ 1 mark

For every 2 triangles there are ☐ squares. 1 mark

6 A shop has a special offer on cans of lemonade.
For every 12 cans of lemonade you buy, you get a free glass.

How many free glasses will you get if you buy 48 cans of lemonade?

☐ 1 mark

How many cans of lemonade do you need to buy to get 11 free glasses?

☐ 1 mark

7 In a fish tank, for every 8 orange fish there are 3 blue fish.

There are 24 orange fish. How many blue fish are there?

☐ 1 mark

8 In a flock of sheep, 3 in every 7 sheep are female.
There are 27 female sheep in the flock.

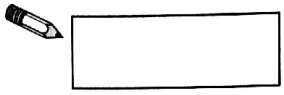
What is the total number of sheep in the flock?

☐ 1 mark

Ratio and Proportion

9 The ratio of boys to girls in Year 5 is 6:7.
There are 42 boys in Year 5.

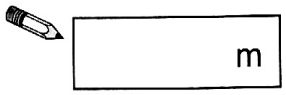
How many children are in Year 5?



2 marks

10 Yusuf has a map of his town. 2 cm on the map represents 100 m in real life. He draws a line on the map to show his journey to school.

The line Yusuf draws is 6 cm long.
How long is Yusuf's journey to school in real life?

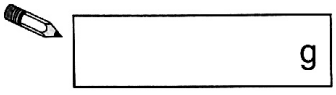


1 mark

11 A recipe for tomato sauce uses the ingredients shown below.

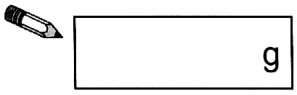
Ingredients	
Tomatoes	600 g
Olive Oil	20 ml
Sugar	10 g

Henry uses 50 g of sugar.
How many grams of tomatoes will he need to use?



1 mark

Chloe uses 15 ml of olive oil.
How many grams of sugar will she need to use?



1 mark

"I can solve problems that are to do with the relative sizes of two amounts."