Total Marks	
(out of 16)	

6.2

Name	
Date	

Section 1:

solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts

To make **8 pancakes** you need **160 grams of flour**.



Eve is making 12 pancakes.

How many grams of flour does she need?



1 mark

2 Cheese costs £7.00 per kilogram.

How much would it cost to buy 300 grams?





1 mark



Pastry is made by mixing flour with butter.

The ratio of flour to butter is 3:2 by weight.



How much butter is needed when you use 60 g of flour?

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Marcus needs 250 grams of pastry.

How much flour does he need?

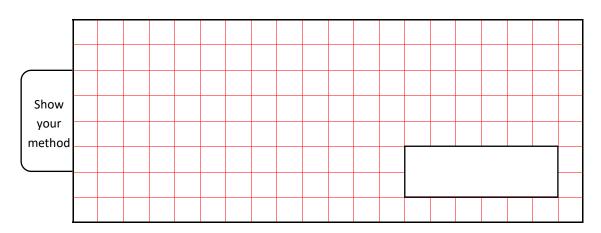


4



A scale model car is 24 cm long. It is made to the scale **1:18** to the full size car.

Calculate the length of the full size car.



2 marks

2 marks



Section 2:

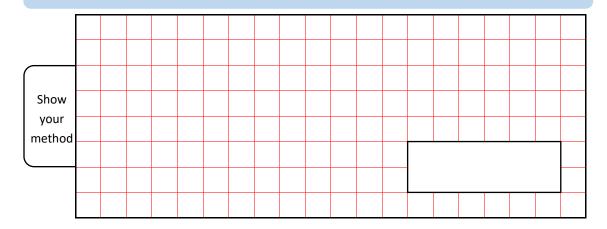
solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison

5

A t-shirt normally costs £14. It is in a sale with 20% off the normal price.



How much does it cost in the sale?



2 marks

6

Complete the calculations.

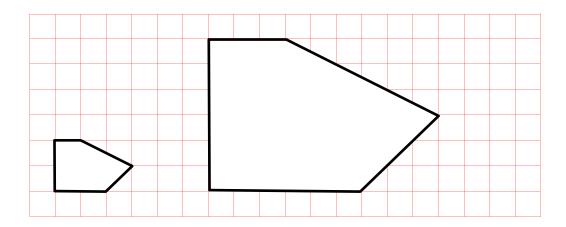


Section 3:

solve problems involving similar shapes where the scale factor is known or can be found

7

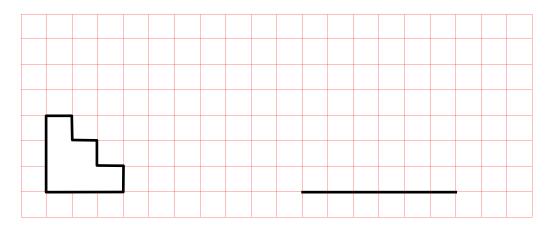
Write the scale factor used to enlarge the shape on the left.



1 mark

8

Enlarge the shape on the left by a scale factor of 2.



The first line has been done for you.

Use a ruler.

2 marks

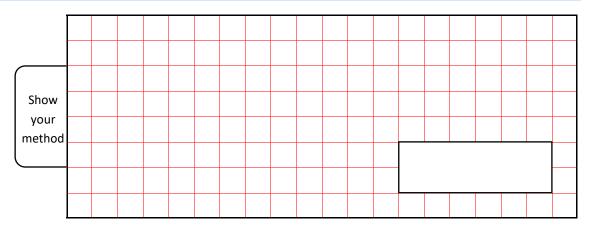


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solve problems involving unequal sharing and grouping using knowledge of fractions and multiples

- 9 There are 32 children in Class 6A
 - $\frac{5}{8}$ of them have a packed lunch. The rest have a school dinner.

How many children have a school dinner?



2 marks

- There are 120 children in Year 7 at Kineton High School.
 - In P.E. they can choose to play either football, rugby or rounders.
 - $\frac{2}{5}$ of the children chose to play football.

Twice as many children chose to play rugby as chose to play rounders.

How many children chose rounders?

