

## 6.1

Total Marks (out of 20)	
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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

1



A packet of sweets contains **4 lemon drops** for every **3 toffees**.

There are **12 lemon drops** in a packet.

How many **toffees** in a packet?

1 mark

2 Peanuts cost **40p** for every **100 grams**.

How many grams of peanuts can be bought for **£1**?



1 mark

**3** Purple paint is made by mixing **3 parts of red** paint with **2 parts of blue** paint.



How much **blue paint** is needed when you use **600ml of red paint**?

 ml

Eve is making **2 litres of purple paint**.

How much **red paint** does she need?

 ml

2 marks

**4** This map has a scale of **2cm to 7km**.

The road on the map from Alcester to Stratford is **3cm** long.



What is the length of the road in **km**?

 km

1 mark



7 Zac has done a survey of people's favourite flavours of crisps.

He has worked out the percentage of each response.

He is going to create a pie chart with his results.



Complete the table below to show his results.

Flavour	Percentage of votes	Angle on pie chart
Cheese and Onion	50%	180°
Ready Salted		90°
Prawn Cocktail	10%	
Other	15%	

3 marks

8 There are **120 children** at Tysoe School.

They all vote for their next school trip.

**20%** vote for a visit to the zoo.

**25%** vote for a visit to the museum.

The **rest** vote for a visit to the **seaside**.

How many children vote for a visit to the seaside.

Show your method

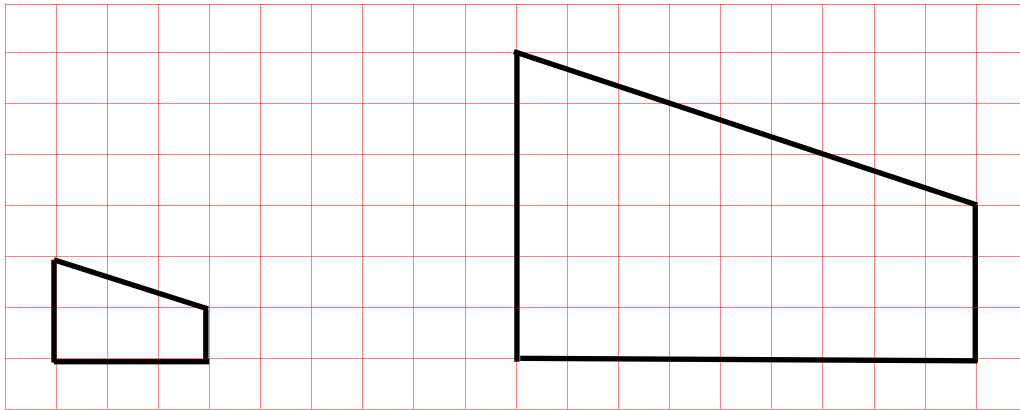
2 marks

**Section 3:**

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

**9**

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

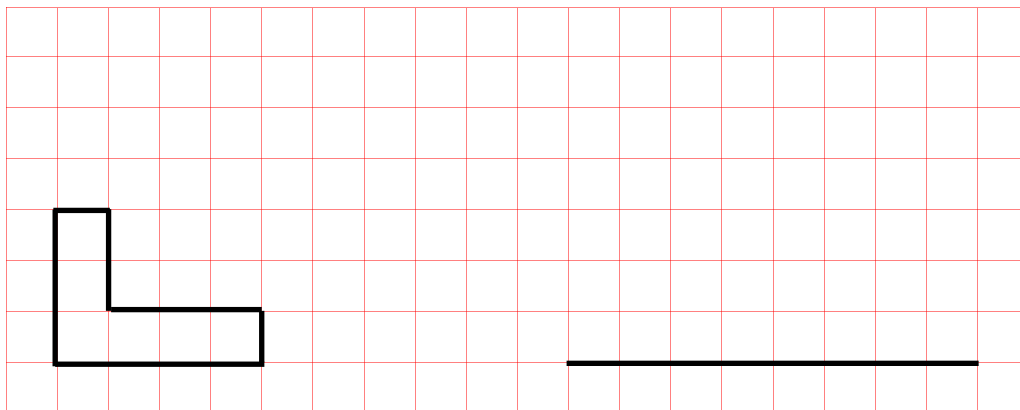


Scale factor =

\_\_\_\_\_ 1 mark

**10**

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

**Section 4:**

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

**11** There are 35 children in Class 6B

$\frac{3}{5}$  of them are boys.

How many **girls** are there in Class 6B?

Show your method

**12** A gardener planted 3 different types of bulbs in a flower bed.

$\frac{6}{10}$  of the bulbs were daffodils.

The rest of the flowers were either tulips or crocuses.

The gardener planted three times as many tulips as crocuses.



2 marks

What **fraction** of the bulbs planted were tulips?

1 mark