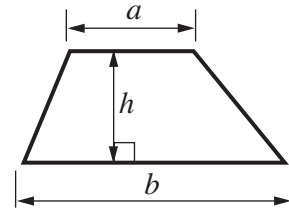


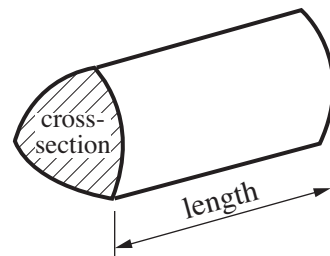


## Formulae Sheet

$$\text{Area of trapezium} = \frac{1}{2} (a + b)h$$



$$\text{Volume of prism} = (\text{area of cross-section}) \times \text{length}$$



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9 (a) Here is a number pattern.

1      3      5      7      9      11      13

What is the **special** name for numbers like this?

(a) ..... [1]

(b) Here is the start of a different number pattern.

2      6      10      14

What is the next number in this pattern?

(b) ..... [1]

(c)

7      15      18      40      41      52

Pavan wants to write down a list of numbers that are divisible by 5.

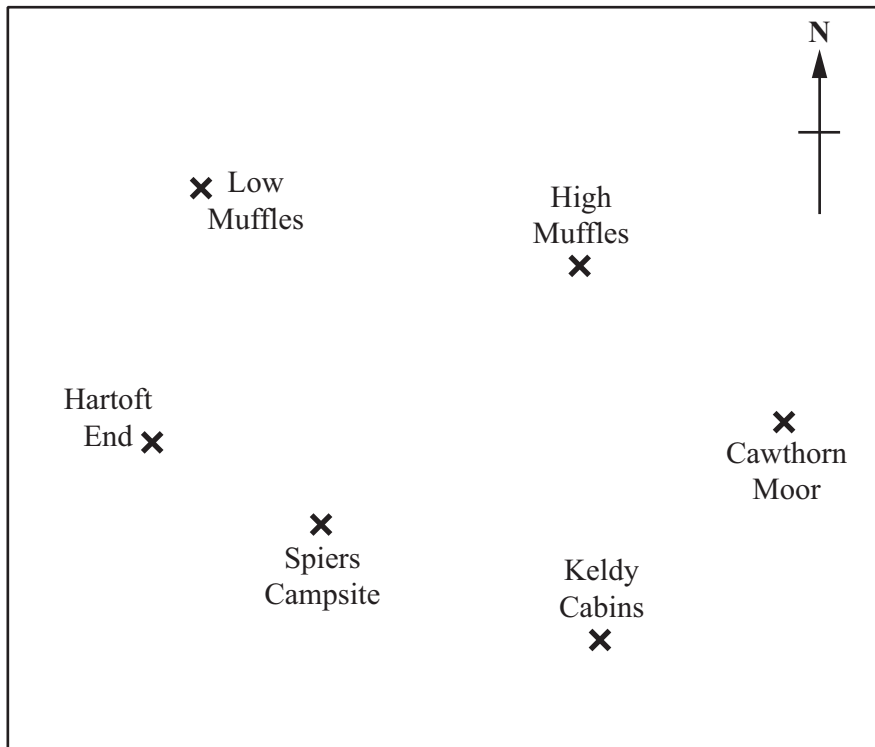
(i) Write down **all** of the numbers from the box that should go in his list.

(c)(i) ..... [1]

(ii) Explain how you can tell if a number is divisible by 5.

..... [1]

10 Here are some places in Cropton Forest.



(a) Complete each sentence with the correct compass direction.

Cawthorn Moor is ..... of Hartoft End.

Spiers Campsite is ..... of High Muffles.

[2]

(b) Here are the prices for Spiers Campsite.

Prices per night	
Up to 2 people	£14.00
Extra adult	£ 5.50
Extra child	£ 3.00

Mr and Mrs Ross and their child stay at the campsite for 3 nights.

How much do they pay altogether?

(b) £ ..... [3]

(c) Ian walks from Keldy Cabins to High Muffles.

(i) His watch shows the time he starts the walk.



What time does he start the walk?

(c)(i) ..... [1]

(ii) Ian arrives at High Muffles at 3:15.

How long does Ian take to walk from Keldy Cabins to High Muffles?

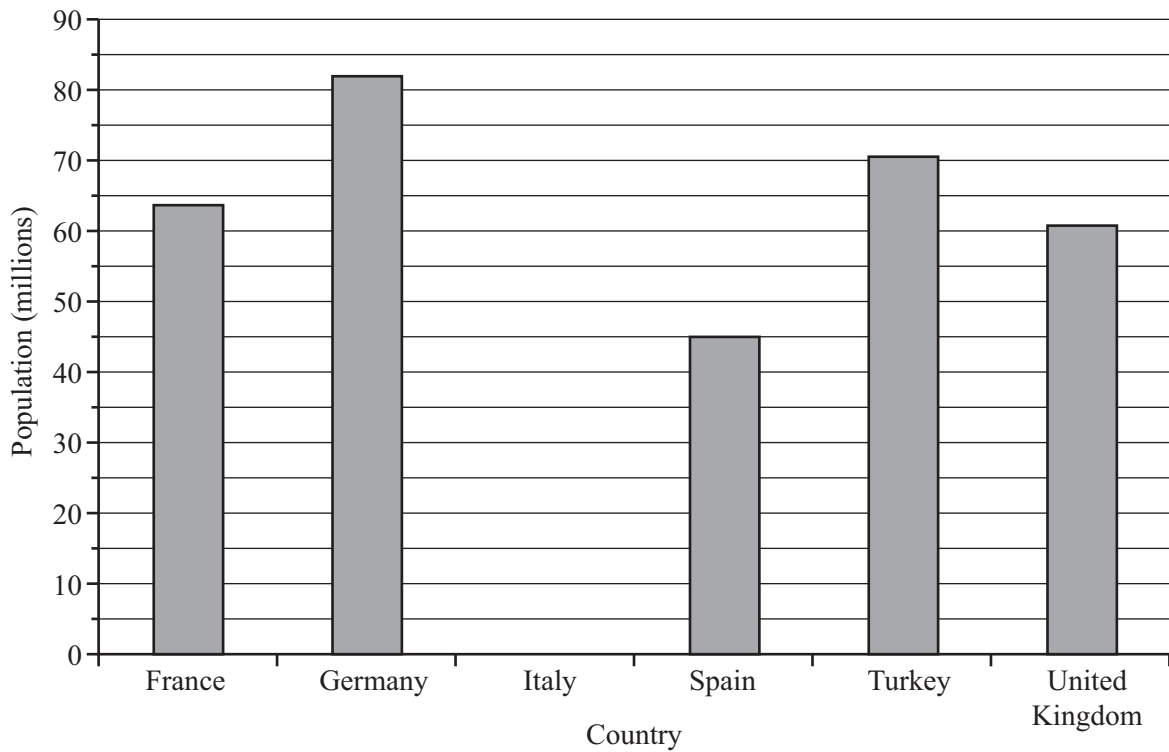
(ii) ..... minutes [1]

(d) Ian now walks from High Muffles to Cawthorn Moor.  
He leaves High Muffles at 3:25.  
It takes him 30 minutes to walk to Cawthorn Moor.

What time is it when he gets there?

(d) ..... [1]

11 (a) This bar chart shows the populations of the largest countries in the European Union in 2008.



(i) The population of Italy was 60 million.

Show this on the bar chart.

[1]

(ii) Which of these countries had the largest population?

(a)(ii) ..... [1]

(iii) What was the population of Spain?

(iii) ..... million [1]

(iv) Complete.

The population of Turkey was ..... million more than the population of the United Kingdom.

[1]

- (b) One of the smallest countries in the European Union is Luxembourg. The area of Luxembourg is 2586 square kilometres.

Write 2586 correct to the nearest hundred.

(b) ..... [1]

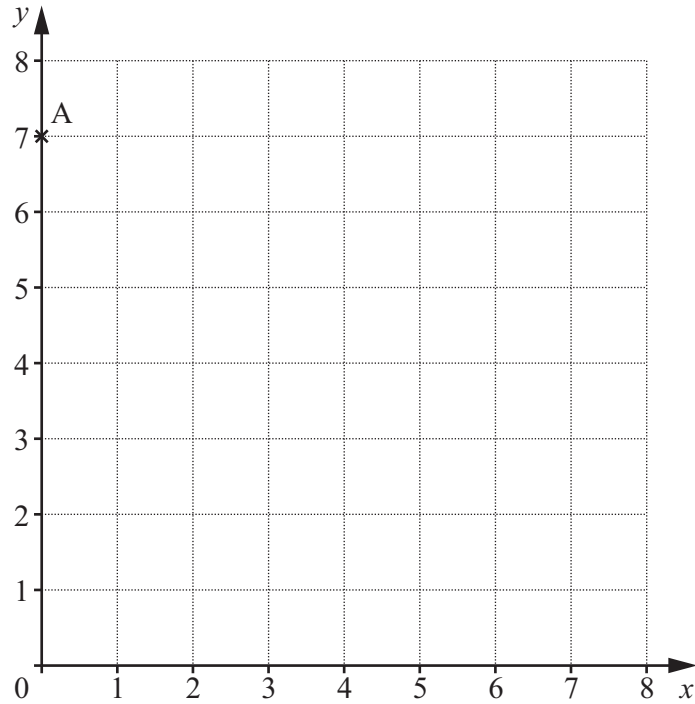
- (c) Here are the lengths, in kilometres, of some rivers in Europe.

Rhine 1320	Loire 1012	Volga 3692	Danube 2860	Elbe 1091
---------------	---------------	---------------	----------------	--------------

Write the lengths in order, starting with the **longest**.

..... [2]  
*longest*

12



(a) Write down the coordinates of point A.

(a) (..... , .....) [1]

(b) Point B is at (6, 4).

Plot point B on the grid.

[1]

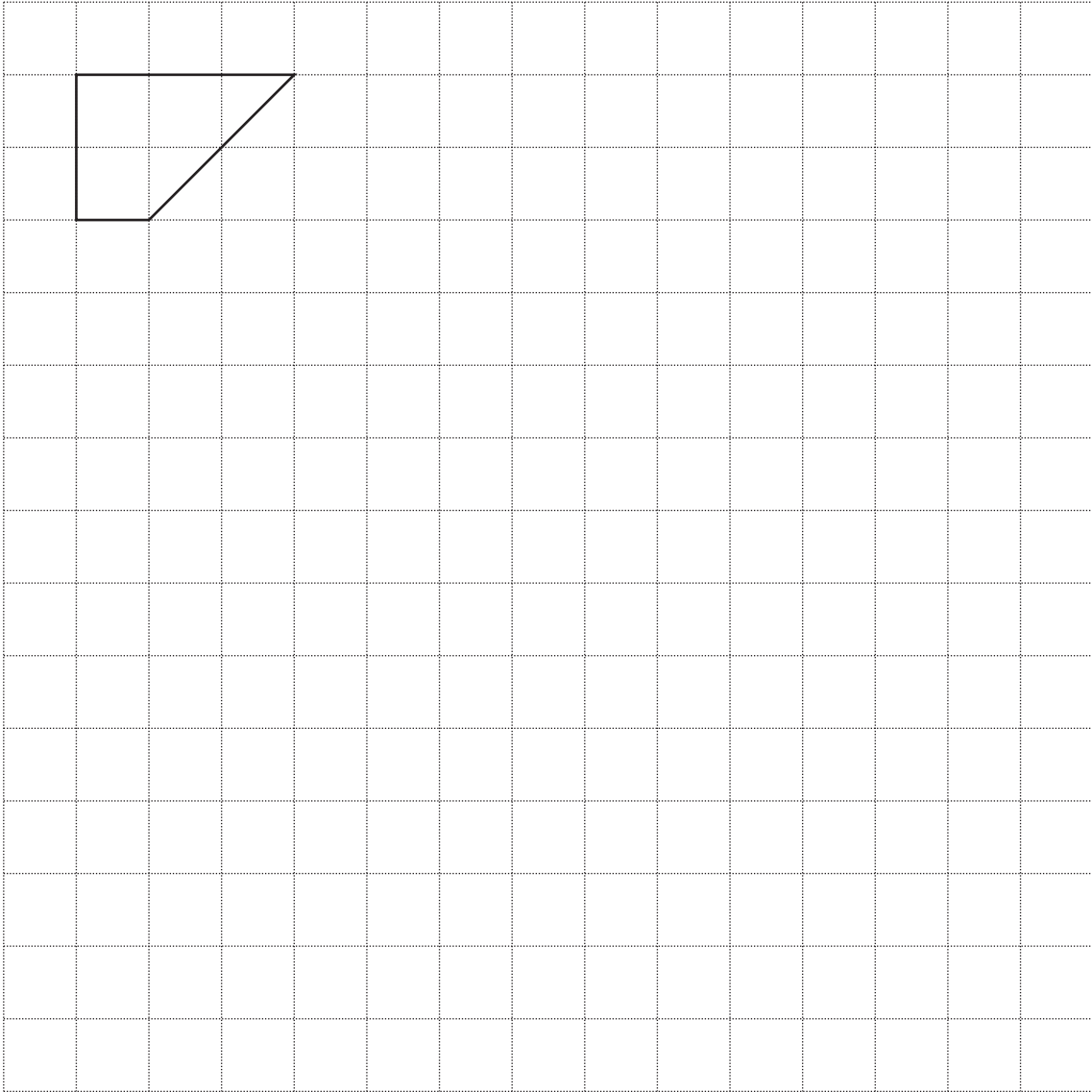
(c) Join points A and B with a straight line.

Write down the coordinates of another point on this line.

(c) (..... , .....) [1]



- 13 Draw an enlargement of the shape below.  
Make each line **three** times as long.



[3]

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