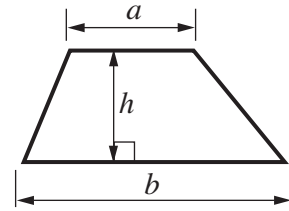
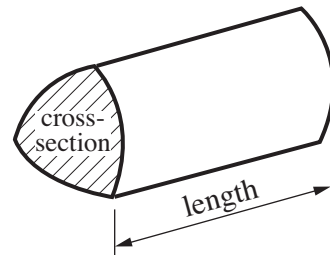


Formulae Sheet: Foundation Tier

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

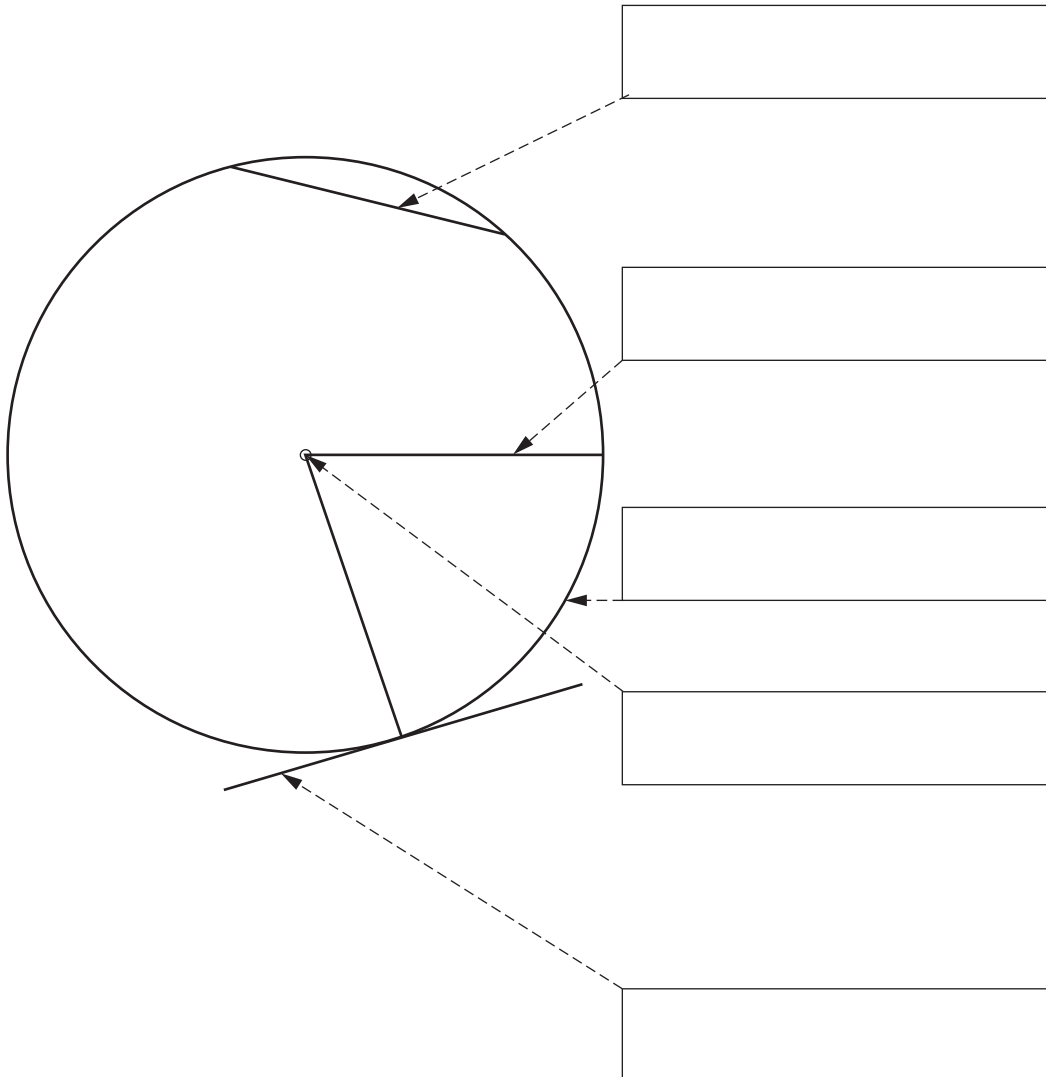


Volume of prism = (area of cross-section) \times length

**PLEASE DO NOT WRITE ON THIS PAGE**

- 1 Label the parts of the circle by writing the correct word in each box.
Choose from this list.


diameter	centre	chord	tangent
circumference	radius	sector	






[5]

- 2 Brandon asked pupils in his year group to vote for their favourite author. The votes for the top five are shown in the pictogram.

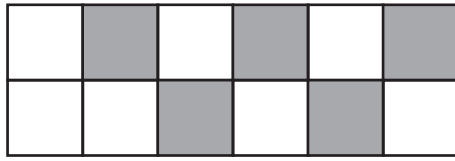
Complete the pictogram by filling in the key and the three spaces in the diagram.

Key		represents _____ votes
------------	---	------------------------

Author		Votes
Cabot		20
Horowitz		12
Pratchett		11
Pullman		
Rowling		9

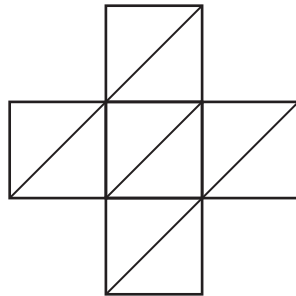
[4]

3 (a) (i) What fraction of the diagram is shaded?



(a)(i) [1]

(ii) Shade 20% of the diagram below.



[1]

(b) Indicate, by writing either 'yes' or 'no' in each box, which of the following fractions are equal to $\frac{3}{4}$.

$$\frac{4}{5}$$

$$\frac{6}{8}$$

$$\frac{9}{12}$$

$$\frac{35}{45}$$

[2]

- 4 (a) Work out the following.

$$907 - 264$$

(a) [2]

- (b) Serena buys 14 postcards at 25p each.

How much change should she receive from £10?

(b) £ [3]

- 5 Raj works out the area and perimeter of his lawn so that he can buy the right amounts of fertiliser and edging.

The lawn is a rectangle, 3 m wide and 7 m long.

- (a) What is the area of the lawn?

(a) m² [2]

- (b) How many metres of edging should he buy?

(b) m [1]

6



(a) Measure angle x .

(a)[°] [1]

(b) In the space below, draw an angle of 145° .

[1]

- 7 (a) The coordinates (x,y) of the points on a line are connected by this equation.

$$x + y = 10$$

Find y when $x = 3$.

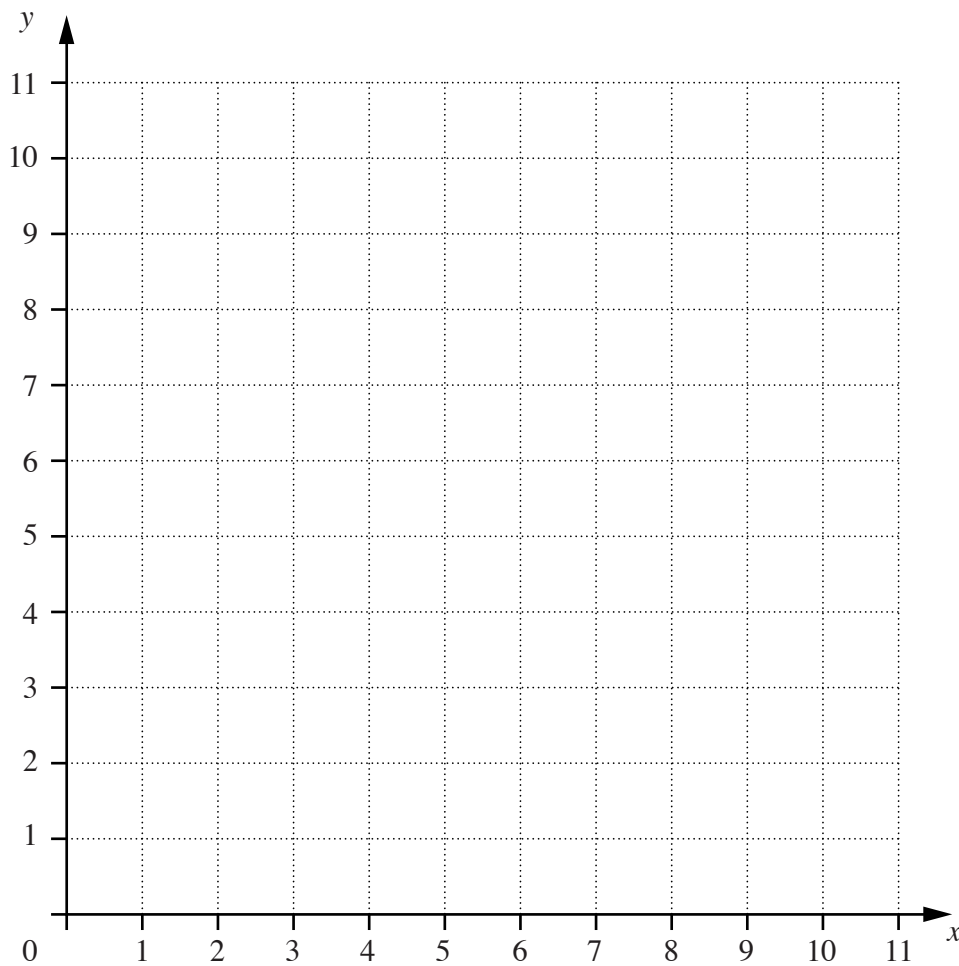
(a) [1]

- (b) Complete the table for the coordinates of some more points on the line.

x	0	5	
y			1

[1]

- (c) Draw the graph of the straight line $x + y = 10$.

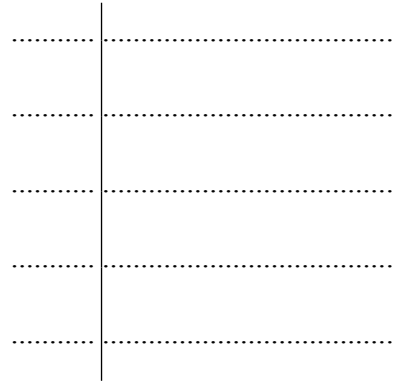


[2]

8 Adam works as a driver for a delivery company.
He recorded the number of miles he drove each day for 13 days.
His data were as follows:

40 11 28 17 53 25 46 29 37 38 55 45 47

(a) Construct an ordered stem and leaf diagram to illustrate these data.



Key: | represents miles [3]

(b) What is the median number of miles that Adam drove?

(b) [1]

TURN OVER FOR QUESTION 9

9 A company has 240 employees.
The 240 employees were asked by their trade union to vote on whether to go on strike.
150 of the employees voted.
96 of these voted YES.

(a) What percentage of the 150 voted YES?

(a) % [2]

(b) The trade union concluded that this represented a majority voting YES.
The company calculated the percentage voting YES based on the total number of employees.

Decide whether the company came to the same conclusion as the trade union.
Show all your working.

.....

.....

.....

.....

.....

..... [3]

PLEASE DO NOT WRITE ON THIS PAGE

PLEASE DO NOT WRITE ON THIS PAGE



Copyright Information

OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download from our public website (www.ocr.org.uk) after the live examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact the Copyright Team, First Floor, 9 Hills Road, Cambridge CB2 1GE.

OCR is part of the Cambridge Assessment Group; Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.