

Centre number	Candidate number
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INSTRUCTIONS TO CANDIDATES

- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Answer **all** the questions.

- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Your answers should be supported with appropriate working. Marks may be given for a correct method even if the answer is incorrect.
- Write your answer to each question in the space provided. Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- Do **not** write in the bar codes.

INFORMATION FOR CANDIDATES

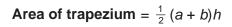
- The number of marks is given in brackets [] at the end of each question or part question.
- Your Quality of Written Communication is assessed in questions marked with an asterisk (*).
- The total number of marks for this paper is **60**.
- This document consists of 20 pages. Any blank pages are indicated.

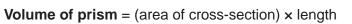


This paper has been pre modified for carrier language

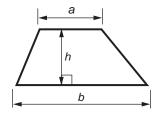
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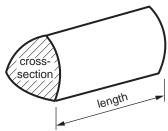
Formulae Sheet: Foundation Tier











1 (a) Work out.

23 + 38

(b) (i) Work out.

 8×6

(b)(i)_____[1]

(a)_____ [1]

(ii) Work out.

480 ÷ 6

Your answer to part (b)(i) may help you.

(ii)_____ [1]

- (c) A farmer fills egg boxes with eggs.
 - He fills 5 boxes, each with 4 eggs.
 - He fills 7 boxes, each with 6 eggs.
 - He fills 3 boxes, each with 10 eggs.

Work out the total number of eggs.

(c)_____ [4]

Turn over

[1]

2 (a) (i) Shade $\frac{1}{5}$ of this grid.

(ii) Work out.

 $\frac{1}{5} + \frac{2}{5}$

Give your answer as a fraction.

(a)(ii) _____ [1]

(b) Write 14 days as a fraction of 30 days. Give your answer as a fraction in its simplest form.

(b)_____[2]

(c) Giles wins £100.

He gives $\frac{3}{4}$ of this money to charity.

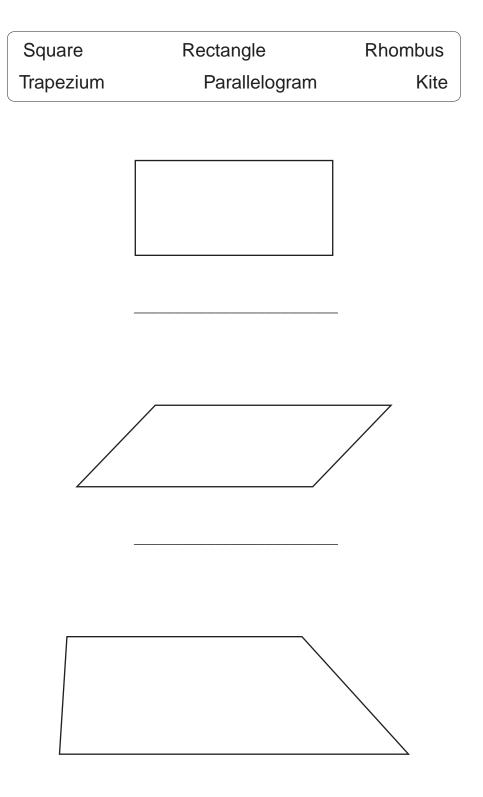
Work out how much Giles gives to charity.

3 (a) Complete these statements using words from this list.

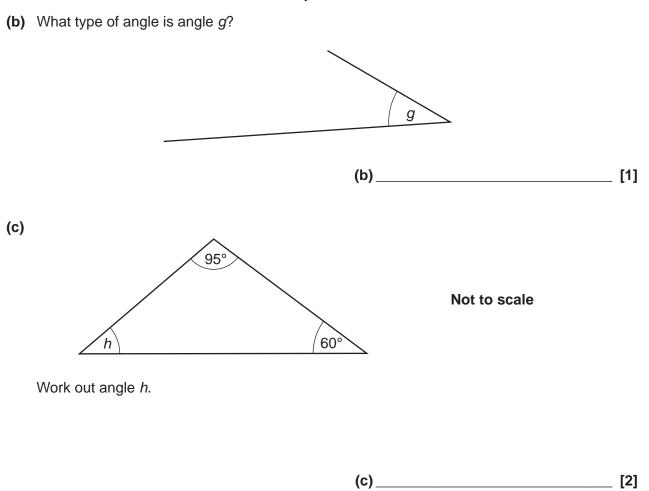
square	cube root	cube	square root
(i) The		of 16 is 4	
(I) IIIe		01 10 15 4.	
(ii) The		of 3 is 27.	
) Write down the	value of the following.		
(i) 2 ³			
		(b)(i)	
(ii) √169			

(ii)_____ [1]

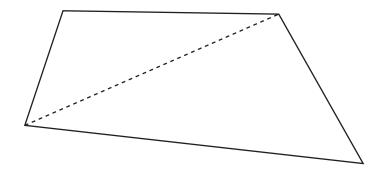
4 (a) Write the correct mathematical name under each shape. Choose from this list.



[3]



(d)* The diagram shows a quadrilateral with one diagonal drawn.



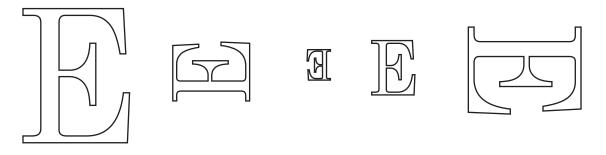
Without measuring, explain why the angles of a quadrilateral add up to 360°.

[3]

5 (a) This letter E is used in the title of a book.



Draw a ring around the letter that is congruent to the E drawn above.



(b) This letter G is also used in the book title.

G

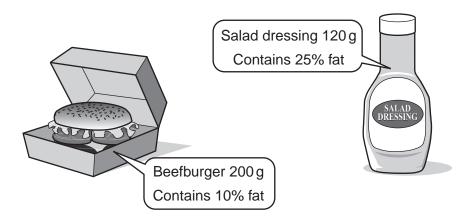
Draw a ring around each of the two letters that are **similar** to the G drawn above.

G G G G G

[2]

[1]

(a) Information on the fat content for certain weights of beefburgers and salad dressing is 6 given below.



Work out how many grams of fat there are in

(i) the beefburger,

(a)(i)______g [1]

(ii) the salad dressing.

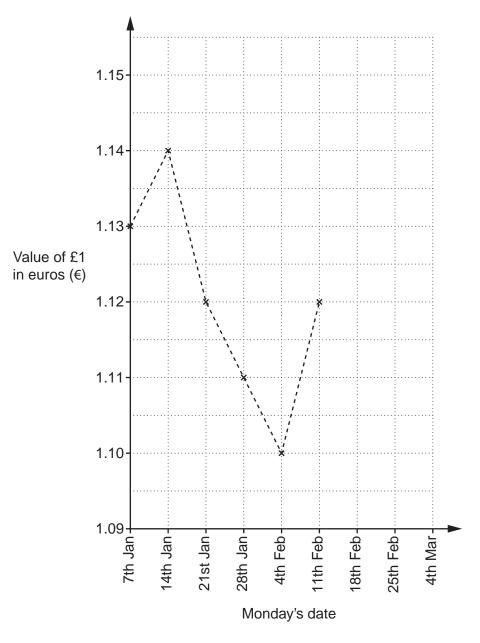
(ii) ______ g [2]

(b) A beefburger contains 87.13g of protein.

Write 87.13 correct to the nearest whole number.

Turn over

7 Brody records the value of £1 in euros (€) each Monday for six weeks. His results are shown in this time series graph.



(a) Complete Brody's graph using these values for the next three Mondays.

Monday's date	18th Feb	25th Feb	4th Mar	
Value of £1 in euros (\in)	1.13	1.15	1.14	

(b) On which of these dates was the value of $\pounds 1$ in euros the greatest?

(b)_____[1]

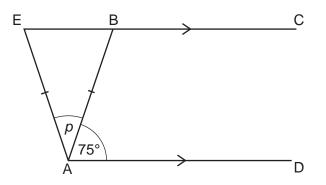
(c)* On 28th Jan, Brody saw this phone for sale.



Is it cheaper for him to pay for the phone in pounds (£) or euros (€)? How much cheaper is it?

[4]

8 EBC is parallel to AD. Triangle ABE is isosceles with AE = AB. Angle BAD is 75°.

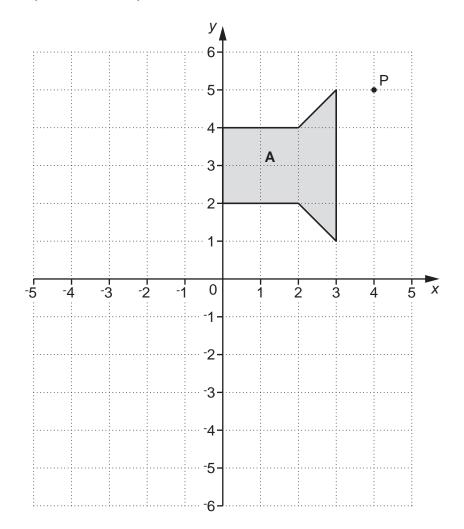


Not to scale

Work out the size of angle *p*.

_____ ° [3]

9 The grid shows point P and shape **A**.



(a) Write down the coordinates of point P.

(a) (______, ____) [1]

(b) Draw the reflection of shape **A** in the *y*-axis.

- 10 (a) Lizzie has a part-time job putting leaflets into envelopes. She earns £30 a day for filling up to 90 envelopes. She earns 20p for every extra envelope she fills after 90.
 - (i) Complete this table showing how much she can earn.

Number of envelopes filled	60	70	80	90	100	110	120	130	140
Earnings (£)		30		30				38	
		50-							[2
		45-							
Earnings (£)		40- 35-							
		30-							
	25- 20-								
	15-								
	10-								
		5- 0- 60	70 80	90	100 110	120 1:	30 140		
		00			of envelop		30 140		

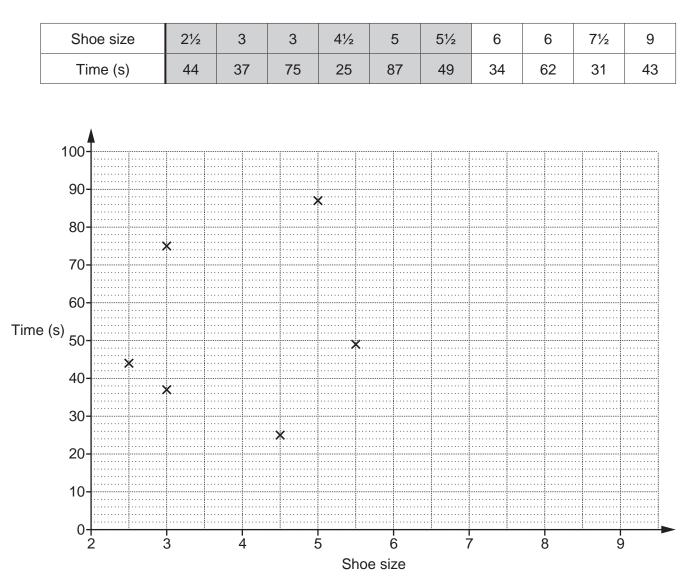
(ii) Plot the pairs of values on the grid and join them using straight lines.

- (b) Alec also has a job filling envelopes. He earns 30p for every envelope he fills.
 - (i) On the grid draw the straight line graph to show Alec's earnings for filling from 60 to 140 envelopes.
 Label this line A.
 - (ii) One day Alec and Lizzie find they have both earned the same amount of money and filled the same number of envelopes.

How many envelopes did they each fill?

(b)(ii)_____ [1]

Rajneev records data for ten students in her school.
 She records their shoe size and the time it takes them to complete a puzzle.



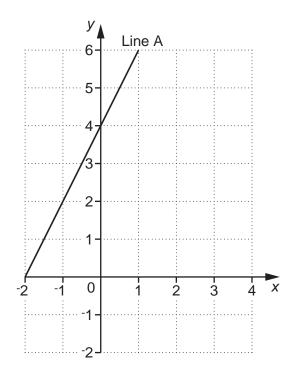
The first 6 points are plotted on the scatter diagram.

- (a) Complete the scatter diagram.
- (b) Choose from the following to describe the diagram. Put a ring around your answer.

NegativeNoPositivecorrelationcorrelationcorrelation

[1]

12 Line A is drawn on the grid.



(a) Write down the coordinates of the point where line A crosses the *y*-axis.

(a) (______, ____) [1]

(b) The equation of line A is y = 2x + 4.

Write down the gradient of line A.

(b)_____[1]

(c) Write down the equation of the line that is parallel to line A and that passes through the point (0, 1).

(c)_____[2]

END OF QUESTION PAPER

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