Centre No.				Pape	r Refer	ence		Surname	Initial(s)
Candidate No.						/		Signature	

Paper Reference(s)

Edexcel GCSE

Mathematics

Unit 3 – Section A (Calculator)

Foundation Tier

Specimen Terminal Paper

Time: 1 hour



Examiner's use only

Team Leader's use only

Materials required for examination

Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used. Items included with question papers

NEI

Instructions to Candidates

In the boxes above, write your centre number, candidate number, your surname, initials and signature. Check that you have the correct question paper.

Answer ALL the questions. Write your answers in the spaces provided in this question paper.

You must NOT write on the formulae page. Anything you write on the formulae page will gain NO credit.

If you need more space to complete your answer to any question, use additional answer sheets.

Information for Candidates

The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2).

There are 17 questions in this question paper. The total mark for this paper is 60.

There are 16 pages in this question paper. Any blank pages are indicated.

Calculators may be used.

If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.

Advice to Candidates

Show all stages in any calculations.

Work steadily through the paper. Do not spend too long on one question.

If you cannot answer a question, leave it and attempt the next one.

Return at the end to those you have left out.

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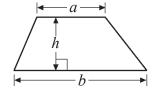




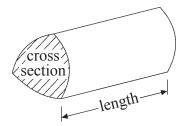
Formulae: Foundation Tier

You must not write on this formulae page. Anything you write on this formulae page will gain NO credit.

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

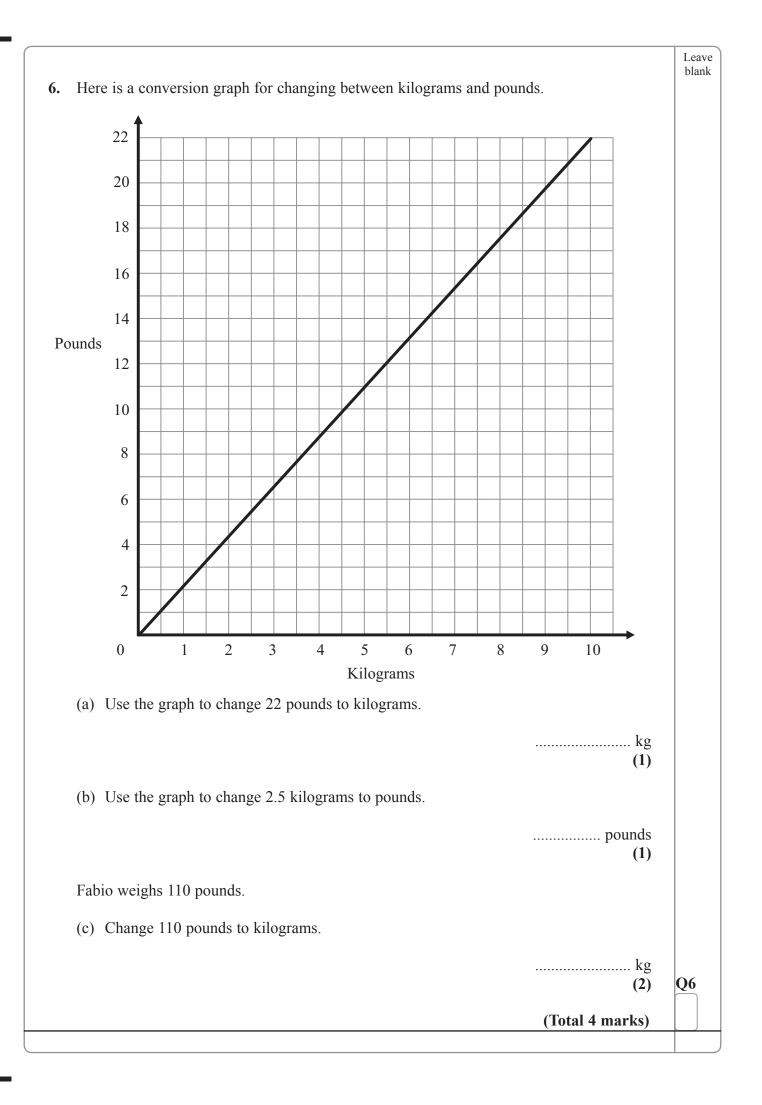


Volume of prism = area of cross section \times length



Write your a	answers in the spaces p	rovided.	
You must write	e down all stages in you	r working.	
	A		
	В		
a) Reflect the shaded triangle i	in the line AD		
1) Reflect the shaded mangle 1			
a) Therroot the shaded thangle i	in the line Ab.		(1)
a) remove the shaded triangle r	in the fine Ab.	^	(1)
a) remeet the shaded triangle r	in the fine Ab.		(1)
Tremest the shaded triangle is	in the line Ab.		(1)
	in the line AB.		(1)
P	Q	R	
	Q	R	
P o) (i) Draw a line of symmetry	Q ry on triangle P.		
P	Q ry on triangle P. natical name for triangle	Q.	
P (ii) Draw a line of symmetry (iii) Write down the mathem	Q ry on triangle P. natical name for triangle	Q .	
P o) (i) Draw a line of symmetry	Q Ty on triangle P. Thatical name for triangle Thatical name for triangle	Q. R.	triangle
P (ii) Draw a line of symmetry (iii) Write down the mathem	Q Ty on triangle P. Thatical name for triangle Thatical name for triangle	Q. R.	

overtime pay = overtime rate × number of hours overtime worked	1
John's overtime rate was £7.20 per hour. He worked 8 hours overtime.	
(a) Work out his overtime pay.	
£	
John used this formula to work out his total pay.	(2
total pay = basic pay + overtime pay	
John's basic pay was £234	
(b) Work out his total pay.	
£	
	(1
T)	otal 3 marks



7.	Write these numbers in order of size. Start with the smallest number.		eave lank
	$\frac{1}{5}$ 0.3 $\frac{2}{7}$		
			,
	(Te	otal 3 marks)	
8.	Simplify		
	(i) $2c + 3c + 4c$		
	(ii) $f \times g \times 3$		
	(iii) $x^2 + x^2 + x^2$		
	т	otal 3 marks)	3

			Leave blank
9.	(a)	Use your calculator to work out	
		$5.2 + \sqrt{7.84}$	
		(2)	
		(2)	
	(b)	Make <i>h</i> the subject of the formula	
		f = g + 3h	
		(2)	Q9
		(Total 4 marks)	

11.	Leave blank
Diagram NOT accurately drawn	
$A {\overbrace{\hspace{1cm}}} A $	
In triangle ABC , AB = BC, Angle $ACB = 40^{\circ}$	
(a) (i) Work out the size of angle x.	
o 	
(ii) Give a reason for your answer.	
(b) (i) Work out the size of angle y.	
o 	
(ii) Give a reason for your answer.	
(3)	Q11
(Total 5 marks)	

		Leave blank
A group of students visited the USA. A student bought a pair of sunglasses in the USA. He paid \$35.50		
In England, an identical pair of sunglasses costs £26.99 The exchange rate was £1 = $$1.42$		
(a) In which country were the sunglasses cheaper?		
	(2)	
(b) How much cheaper?		
	(2)	Q12
(To	otal 4 marks)	
3. Here is a list of ingredients for making some Greek food for 6 people.		
2 cloves of garlic 4 ounces of chick peas		
4 tablespoons of olive oil 5 fluid ounces of Tahina paste		
Work out the amount of ingredients to make the Greek food for 9 people.		
cloves of garlic		
cloves of garlic ounces of chick peas		
ounces of chick peas		Q13

 15. The heat setting number of a gas oven is called its Gas Mark. This rule may be used to change a Gas Mark to a temperature in °C. Gas Mark → × 14 → + 121 → Temperature in °C (a) Use the rule to change Gas Mark 7 to a temperature in °C. ———— °C (2) (b) Complete the formula for T, the temperature in °C, in terms of G, the Gas Mark. 	Leave blank
T	
$T = \dots $ (2)	Q15
16. Solve $4(y+3)=6$	
	Q16
(Total 3 marks)	

17. The equation	Leave blank
$x^3 + x = 37$	
has a solution between 3 and 4 Use a trial and improvement method to find this solution. Give your answer correct to one decimal place. You must show ALL your working.	
$x = \dots$	Q17
(Total 4 marks)	
TOTAL FOR SECTION A: 60 MARKS	
END	