

Centre No.						Paper Reference						Surname	Initial(s)		
Candidate No.						5	3	8	4	F	/	1	1	F	Signature

Paper Reference(s)

**5384F/11F**

**Edexcel GCSE**

**Mathematics**

Unit 3 – Section A – (Non-Calculator)

**Foundation Tier**

Specimen Terminal Paper

Time: 1 hour

Examiner's use only

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Team Leader's use only

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**Materials required for examination**

Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser.  
Tracing paper may be used.

**Items included with question papers**

Nil

**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 18 questions in this question paper. The total mark for this section is 60.

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

**Calculators must not be used.**

**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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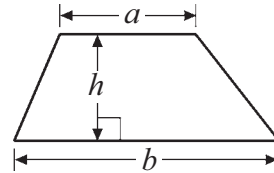
**Turn over**

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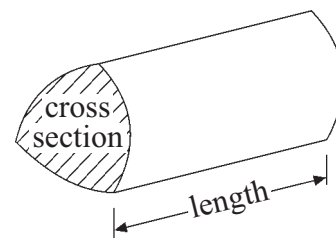
Formulae: Foundation Tier

**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



**Answer ALL EIGHTEEN questions.**  
**Write your answers in the spaces provided.**  
**You must NOT use a calculator.**  
**You must write down all stages in your working.**

1. (a) Write  $\frac{1}{4}$  as a percentage

..... %  
**(1)**

- (b) Write 63% as a fraction.

.....  
**(1)**

- (c) Write 7% as a decimal.

.....  
**(1)**  
**(Total 3 marks)**

**Q1**

2. Sally wrote down the temperature at different times on 1st January 2003.

Time	Temperature
midnight	– 6 °C
4 am	– 10 °C
8 am	– 4 °C
noon	7 °C
3 pm	6 °C
7 pm	– 2 °C

- (a) Write down

- (i) the **highest** temperature,

..... °C

- (ii) the **lowest** temperature.

..... °C  
**(2)**

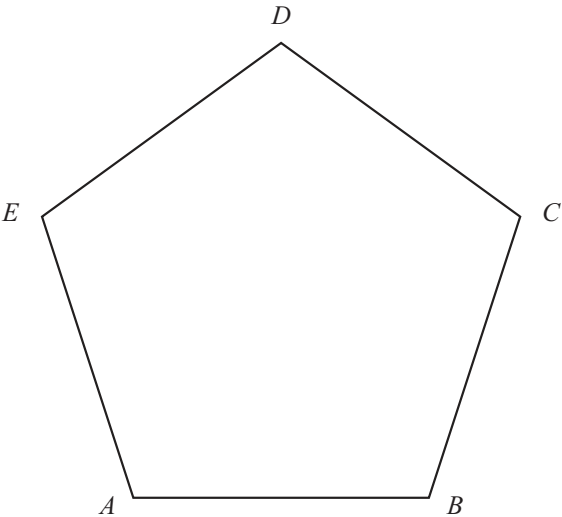
- (b) Work out the difference in the temperature between  
 4 am and 8 am.

..... °C  
**(1)**

**(Total 3 marks)**

**Q2**

3.



(a) (i) Measure the length of  $AB$ .

..... cm

(ii) Measure the size of angle  $A$ .

.....  
(2)

(b) In the space below, draw a line that is 12 cm long.

(1)

(c) Mark with a cross ( $\times$ ) the midpoint of the line that you have drawn.

(1)

(Total 4 marks)

Q3

4. (a) Work out 50% of £640

£ .....  
(2)

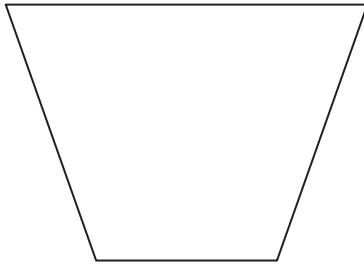
(b) Work out 10% of £56

£ .....  
(2)

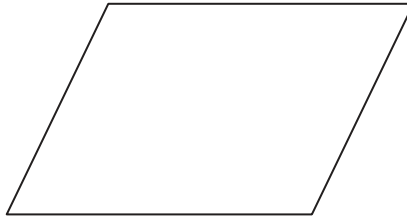
(Total 4 marks)

Q4

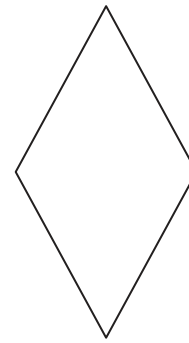
5. Here are three shapes.



**A**



**B**



**C**

**One** of these shapes has **no** lines of symmetry.

(a) Write down the letter of this shape.

.....  
(1)

**One** of these shapes does **not** have rotational symmetry.

(b) Write down the letter of this shape.

.....  
(1)

(Total 2 marks)

Q5

6. (a) Work out  $\frac{1}{3}$  of 21

.....  
(1)

(b) Work out  $\frac{3}{5}$  of 35

.....  
(2)

(Total 3 marks)

Q6

7. The chart shows the shortest distances, in kilometres, between pairs of cities.  
For example, the shortest distance between London and Manchester is 290 km.

London		Nottingham		Manchester		Liverpool		Glasgow	
196									
290		101							
325		158		56					
639		446		346		348			

- (a) Write down the shortest distance between **Nottingham** and **Liverpool**.

..... km  
(1)

Daniel drives from London to Manchester by the shortest route.  
He drives 137 km and stops for a rest.

- (b) Work out how many more kilometres he must drive.

..... km  
(2)

- (c) Write down the names of the two cities which are the **least** distance apart.

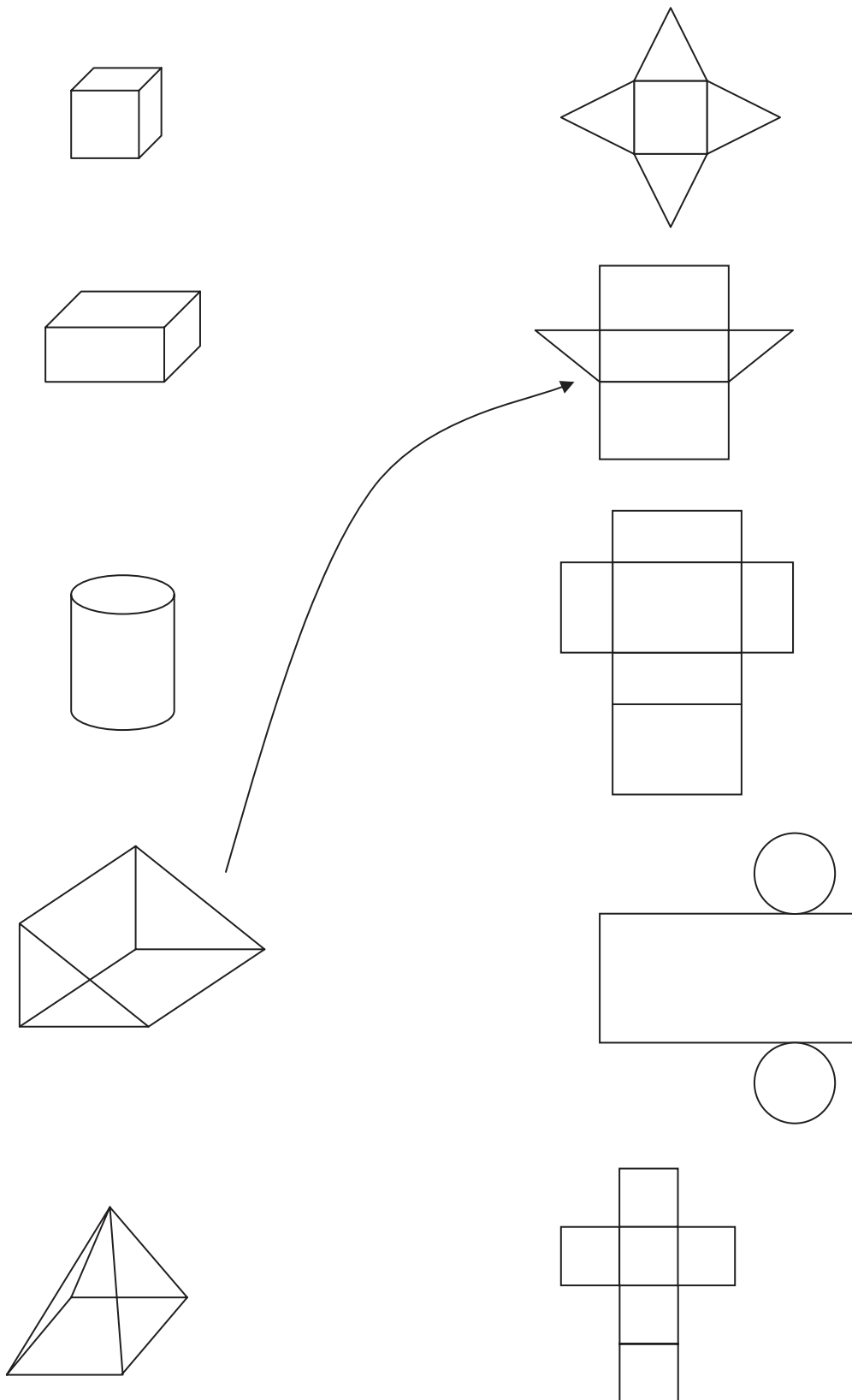
..... and .....  
(1)

(Total 4 marks)

Q7

8. The diagram shows some solid shapes and their nets.  
An arrow has been drawn from one solid shape to its net.

Draw an arrow from each of the other solid shapes to its net.



(Total 3 marks)

9. (a) Work out  $\frac{2}{5} + \frac{1}{10}$

.....  
(2)

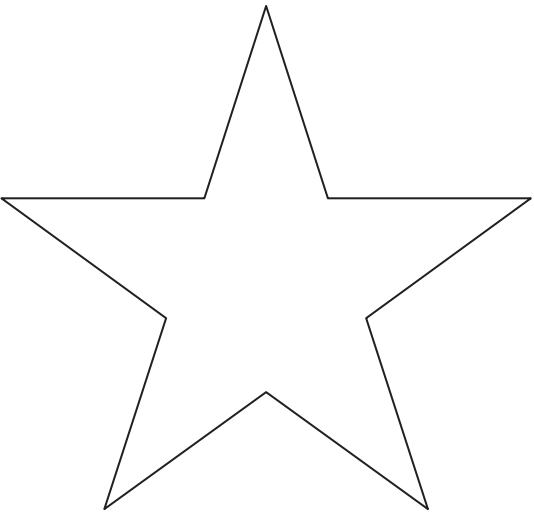
(b) Work out  $\frac{2}{3} - \frac{1}{4}$

Write your answer as a fraction in its simplest form.

.....  
(2)  
(Total 4 marks)

Q9

10. (a) Write down the order of rotational symmetry of this star.



order .....  
(1)

(b) On the star draw in all the lines of symmetry.

(1)  
(Total 2 marks)

Q10



11. Simplify  $3f + 2g - f + 5g$

Q11

(Total 2 marks)

12. This diagram shows a sketch of a triangle.

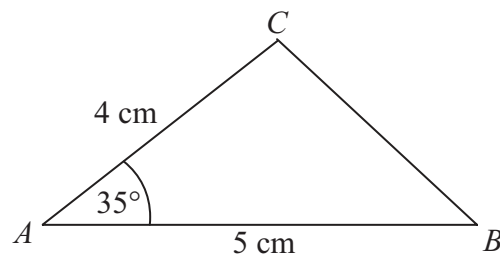


Diagram **NOT**  
accurately drawn

$AC = 4 \text{ cm}$   
 $AB = 5 \text{ cm}$   
Angle  $A = 35^\circ$

Complete the accurate drawing of triangle  $ABC$ .  
The line  $AB$  has been accurately drawn below to help you.



Q12

(Total 2 marks)

**13. Solve these equations**

(a)  $x + 5 = 2$

$x = \dots\dots\dots$   
(1)

(b)  $5p - 3 = 4$

$p = \dots\dots\dots$   
(2)

(c)  $2q - 4 = 5q + 5$

$q = \dots\dots\dots$   
(2)

(d)  $5(2r + 7) = 70$

$r = \dots\dots\dots$   
(2)

**(Total 7 marks)**

**Q13**

**14. Rashmi pays his motorbike repair bill.**

His bill was £80

Then the VAT was added at 17.5%

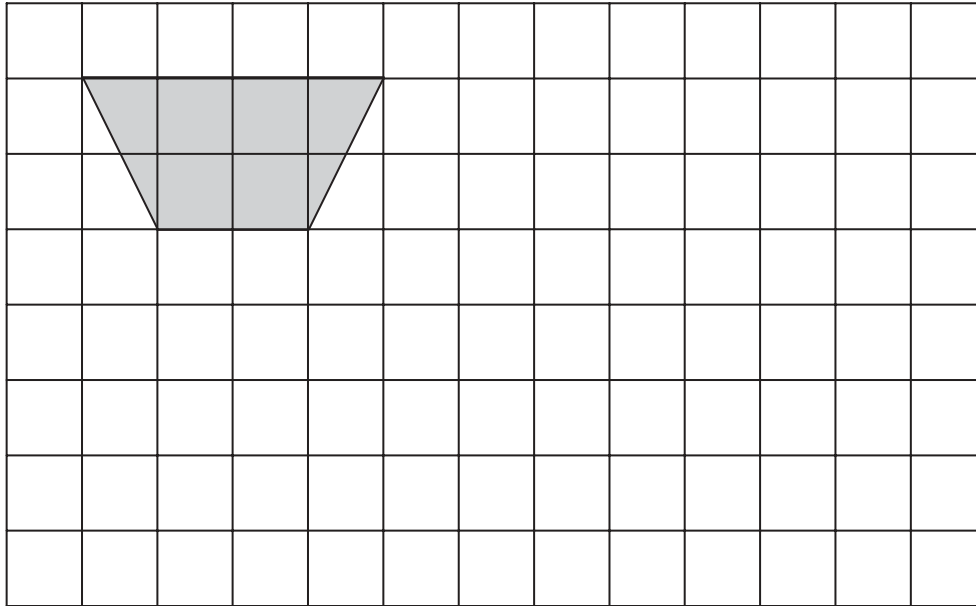
Work out how much VAT was added to Rashmi's bill.

£  $\dots\dots\dots$

**(Total 2 marks)**

**Q14**

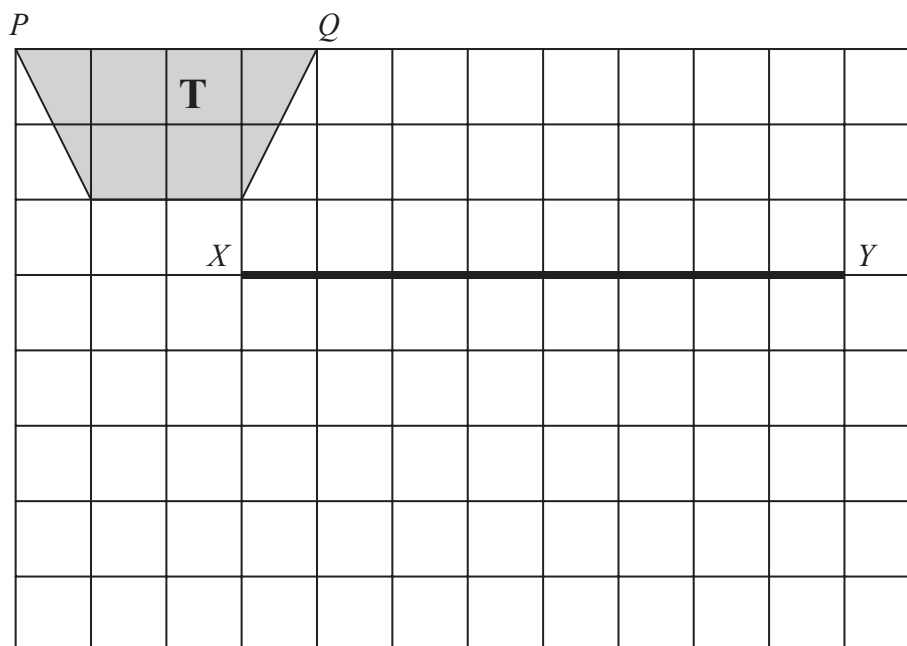
15. The diagram shows a trapezium on a grid.



- (a) Show how the trapezium tessellates.

You should draw at least 6 shapes on the grid.

(2)



The trapezium **T** is enlarged.

The line  $PQ$  becomes the line  $XY$ .

- (b) On the grid, complete the enlargement of trapezium **T**.

(2)

(Total 4 marks)

Q15

16.

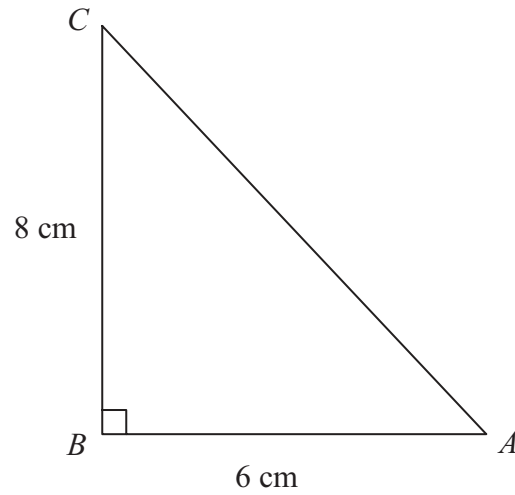


Diagram **NOT**  
accurately drawn

- (a) Calculate the area of the triangle.

.....  $\text{cm}^2$   
(2)

- (b) Calculate the length of  $AC$ .

.....  $\text{cm}$   
(3)

(Total 5 marks)

Q16

17. Rosa makes pizzas.

She uses cheese, topping and dough in the ratios 2 : 3 : 5  
Rosa uses 70 grams of dough.

Work out the number of grams of cheese and the number of grams of topping Rosa uses.

Cheese ..... g

Topping ..... g

(Total 3 marks)

Q17

18. Write as a power of 7

(i)  $7^5 \times 7^3$

.....

(ii)  $7^{10} \div 7^4$

.....

(iii)  $\frac{7^5 \times 7^3}{7^{10} \div 7^4}$

.....

(Total 3 marks)

Q18

TOTAL FOR SECTION B: 60 MARKS

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