Centre No.						Paper Reference							Surname	Initial(s)
Candidate No.										/			Signature	

Paper Reference(s)

Examiner's use only

Team Leader's use only

Edexcel GCSE

Mathematics

Unit 3 – Section B – (Non-Calculator)

Foundation Tier

Specimen Terminal Paper

Time: 1 hour

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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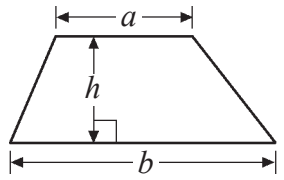
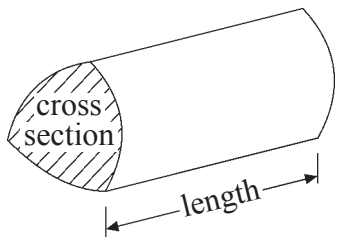
Formulae: Foundation Tier

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 × length



Leave blank

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

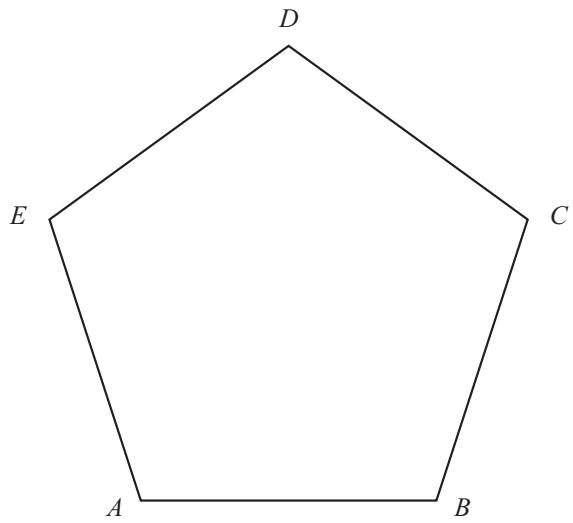
4 am and 8 am.

.....°C
(1)
(Total 3 marks)

Q2

Leave blank

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 (×) the midpoint of the line that you have drawn.

(1)

Q3

(Total 4 marks)

4. (a) Work out 50% of £640

£ ..... .

(2)

(b) Work out 10% of £56

£ ..... .

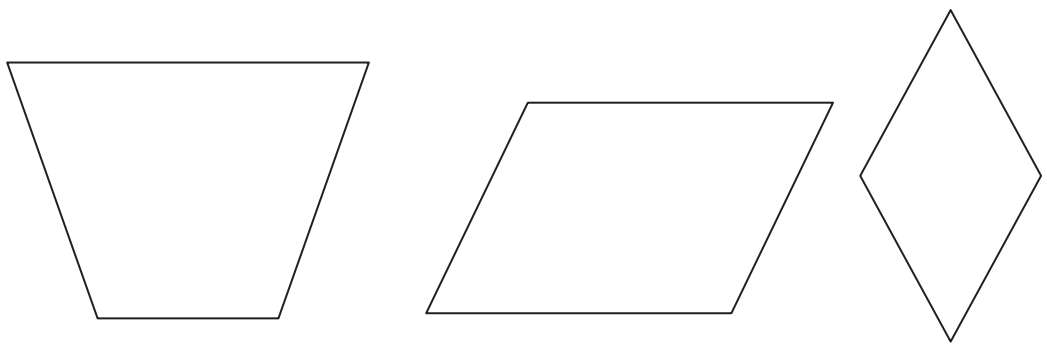
(2)

Q4

(Total 4 marks)

Leave blank

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)

Q5

(Total 2 marks)

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

.....

(1)

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

.....

(2)

Q6

(Total 3 marks)

Leave blank

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

(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)

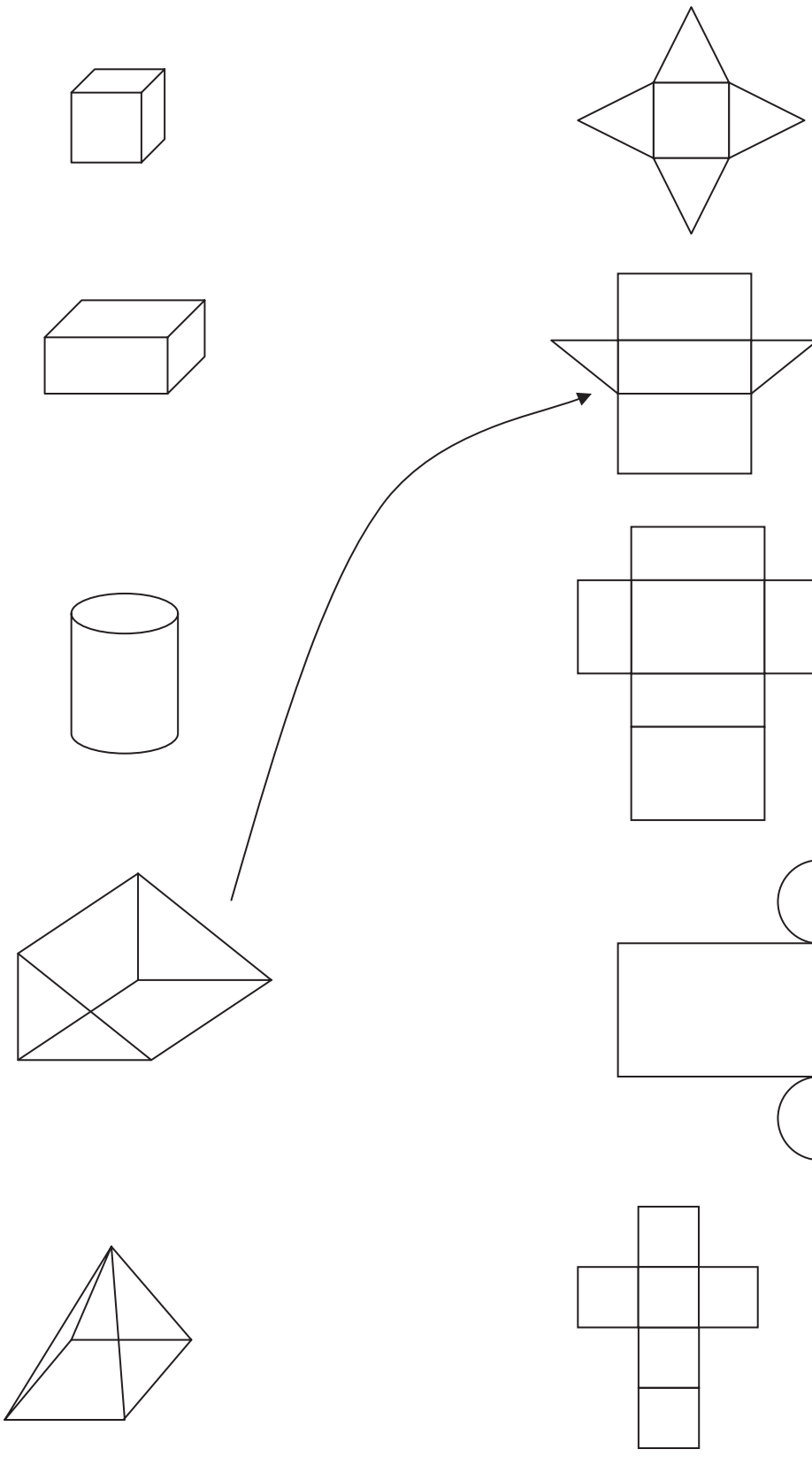
(Total 4 marks)

Q7

Leave blank

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.



Q8

(Total 3 marks)

Leave blank

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

.....
(2)

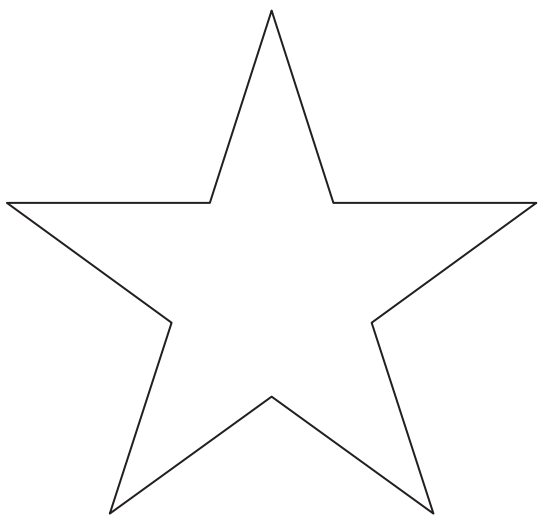
(b) Work out $\frac{2}{3} \quad \frac{1}{4}$

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

Leave blank

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

.....

(Total 2 marks)

Q11

12. This diagram shows a sketch of a triangle.

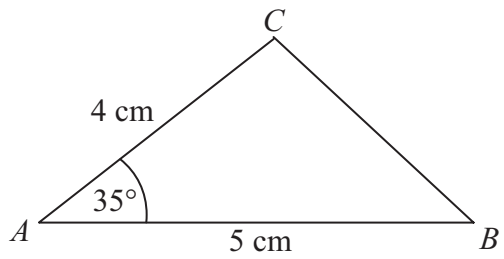
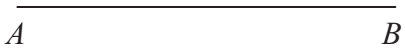


Diagram **NOT** accurately drawn

$AC = 4$ cm
$AB = 5$ cm
Angle $A = 35°$

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



Q12

(Total 2 marks)

Leave blank

13. Solve these equations

(a) $x + 5 = 2$

$x =$ .....
(1)

(b) $5p - 3 = 4$

$p =$ .....
(2)

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

$q =$ .....
(2)

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

$r =$ .....
(2)

Q13

(Total 7 marks)

14. Rashmi pays his motorbike repair bill.

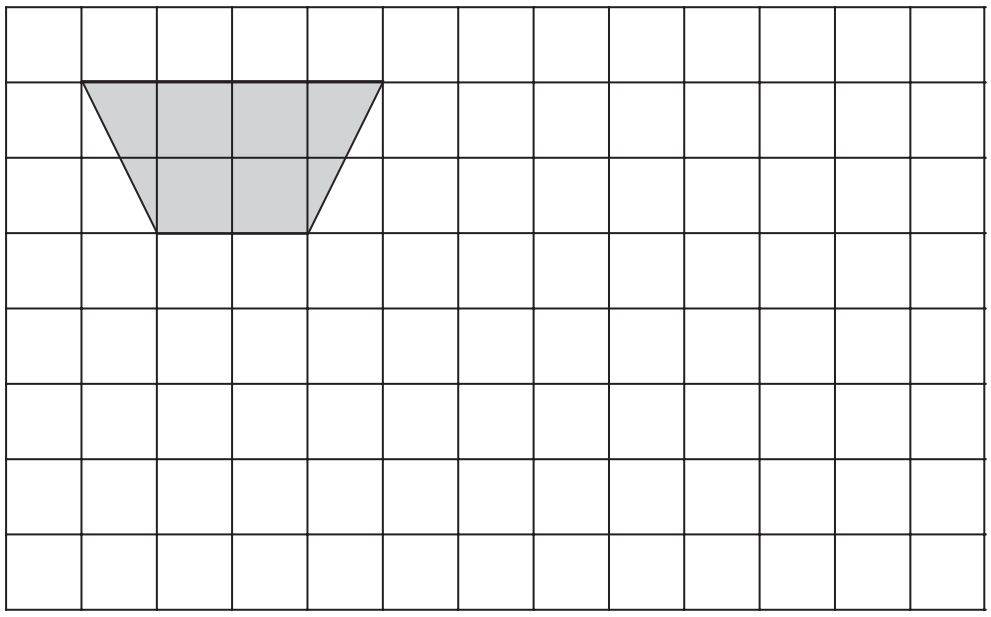
His bill was £80
Then the VAT was added at 17.5%
Work out how much VAT was added to Rashmi's bill.

£ .....
(Total 2 marks)

Q14

Leave blank

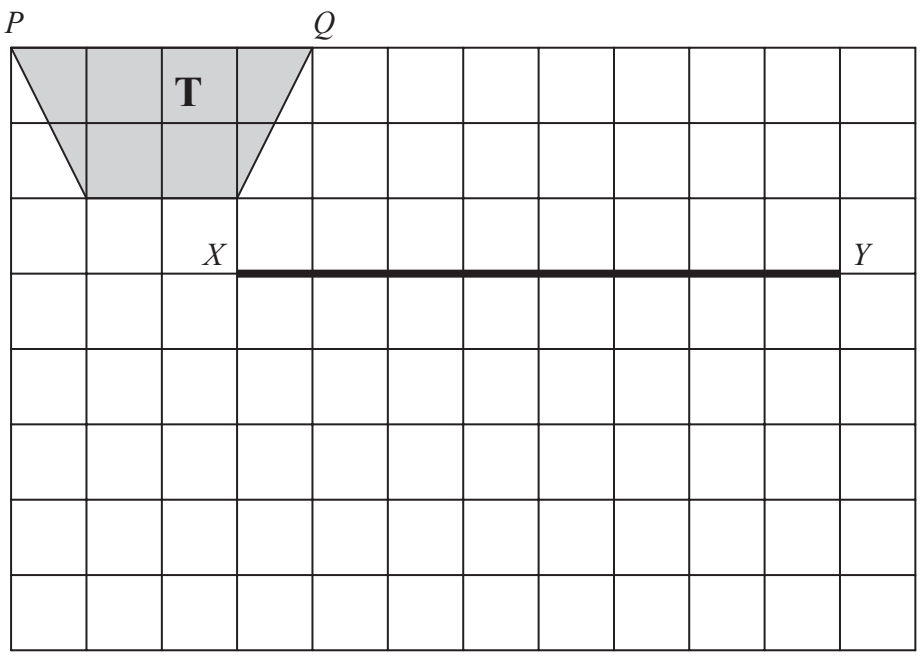
15. The diagram shows a trapezium on a grid.



(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

Leave blank

16.

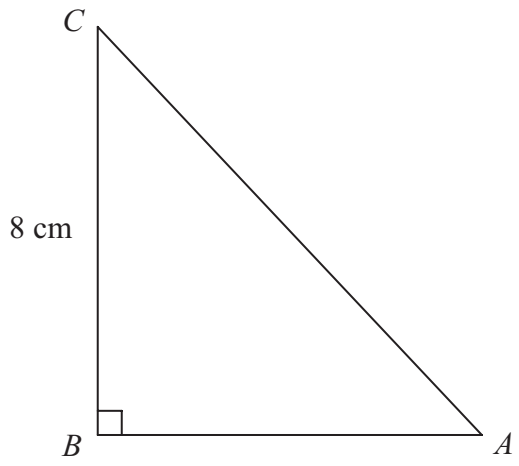


Diagram **NOT** accurately drawn

(a) Calculate the area of the triangle.

..... cm^2
(2)

(b) Calculate the length of AC.

..... cm
(3)

Q16

(Total 5 marks)

Leave blank

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) $\dfrac{7^5 \times 7^3}{7^{10} \div 7^4}$

.....

(Total 3 marks)

Q18

TOTAL FOR SECTION B: 60 MARKS

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