



Rewarding Learning

General Certificate of Secondary Education
2014

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Candidate Number

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Mathematics

Unit T5 Paper 2

(With calculator)
Foundation Tier



[GMT52]

FRIDAY 30 MAY, 3.00 pm–4.00 pm

ML

TIME

1 hour, plus your additional time allowance.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

You must answer the questions in the spaces provided.

Complete in blue or black ink only.

Answer **all eighteen** questions.

Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.

You **may** use a calculator for this paper.

INFORMATION FOR CANDIDATES

The total mark for this paper is 50.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.

Functional Elements will be assessed in this paper.

Quality of written communication will be assessed in **question 8**.

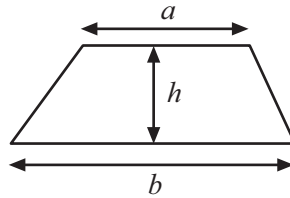
You should have a calculator, ruler, compasses and a protractor.

The Formula Sheet is on page 2.

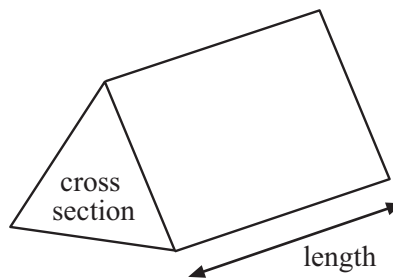
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Formula Sheet

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



Volume of prism = area of cross section \times length



1 Look at the list of words, in bold, below.

Impossible **Unlikely** **Evens** **Likely** **Certain**

From the list, write the word that best describes the probability of

- (a) rolling a score of less than 5 on a fair dice, _____ [1]
- (b) the winning time in the 2016 Marathon being under 3 minutes, _____ [1]
- (c) choosing a letter at random from the letters in the word 'bear' and getting a vowel. _____ [1]

Examiner Only

Marks Remark

Total Question 1

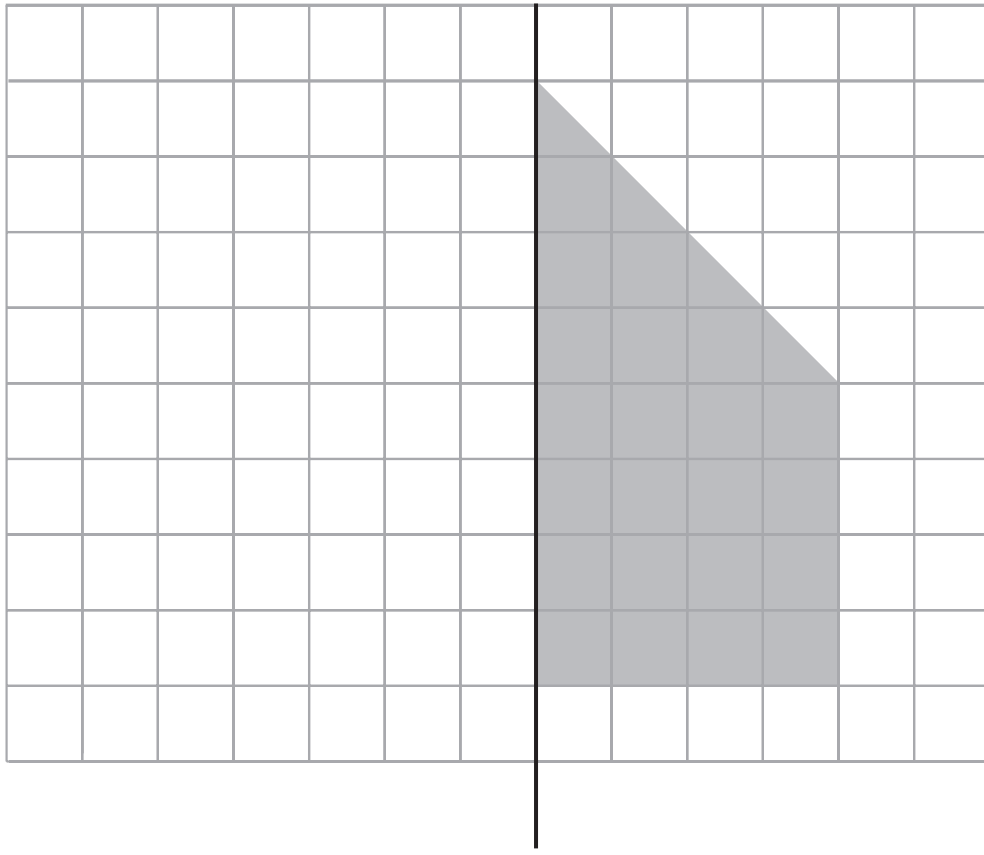
2 I have £2.75. Apples cost 38p each. Estimate how many apples I can buy.
Show your working out clearly.

Answer _____ apples [2]

Total Question 2

[Turn over

4



mirror
line

- (a) Draw the reflection of this shape in the mirror line. [2]
- (b) Now find the area of the whole shape.

Answer _____ cm² [2]

Examiner Only	
Marks	Remark
Total Question 4	

[Turn over

5 A taxi firm displays their fares as shown

**Fixed charge of £1.50
plus
75 pence per mile**

- (a) Joe's fare was £10.50
How many miles did he travel?

Answer _____ [2]

- (b) m represents the number of miles travelled.
Which formula represents the fare F (in £) of the taxi firm?
Circle the correct answer.

$F = 1.50m + 75$ $F = 150 + 75m$ $F = 1.50 + 0.75m$ $F = 1.50m + 0.75$

[1]

Examiner Only	
Marks	Remark
Total Question 5	

6

Please send me	Number	Price	Sub Total
OM Olympics Mug		£10.99	
OH Olympics Ski Hat		£16.49	
OG Olympics Medallion		£21.50	
OS Souvenir Set		£31.99	
Special delivery			6.85
Total £			

Complete the mail order form for **three** Olympics mugs and **one** souvenir set, including Special delivery.

[3]

Total Question 6	

10 (a) Write 5.99 correct to **1 decimal place**.

Answer _____ [1]

(b) Write 0.0362 correct to **3 decimal places**.

Answer _____ [1]

(c) Write 0.06402 correct to **2 significant figures**.

Answer _____ [1]

Examiner Only

Marks Remark

Total Question 10

11 Find a number which makes this statement correct.

$$\text{number} + 3 = \text{number} \times 3$$

Answer _____ [1]

Total Question 11

12 The exchange rate between sterling and euro is £1 = €1.20

(1 pound = 1.20 euro).

A kite costs €15

How much does the kite cost in pounds (£)?

Answer £ _____ [2]

Total Question 12

13 80 rail passengers bought tickets in a train station.

32 of these passengers were less than 30 years old.

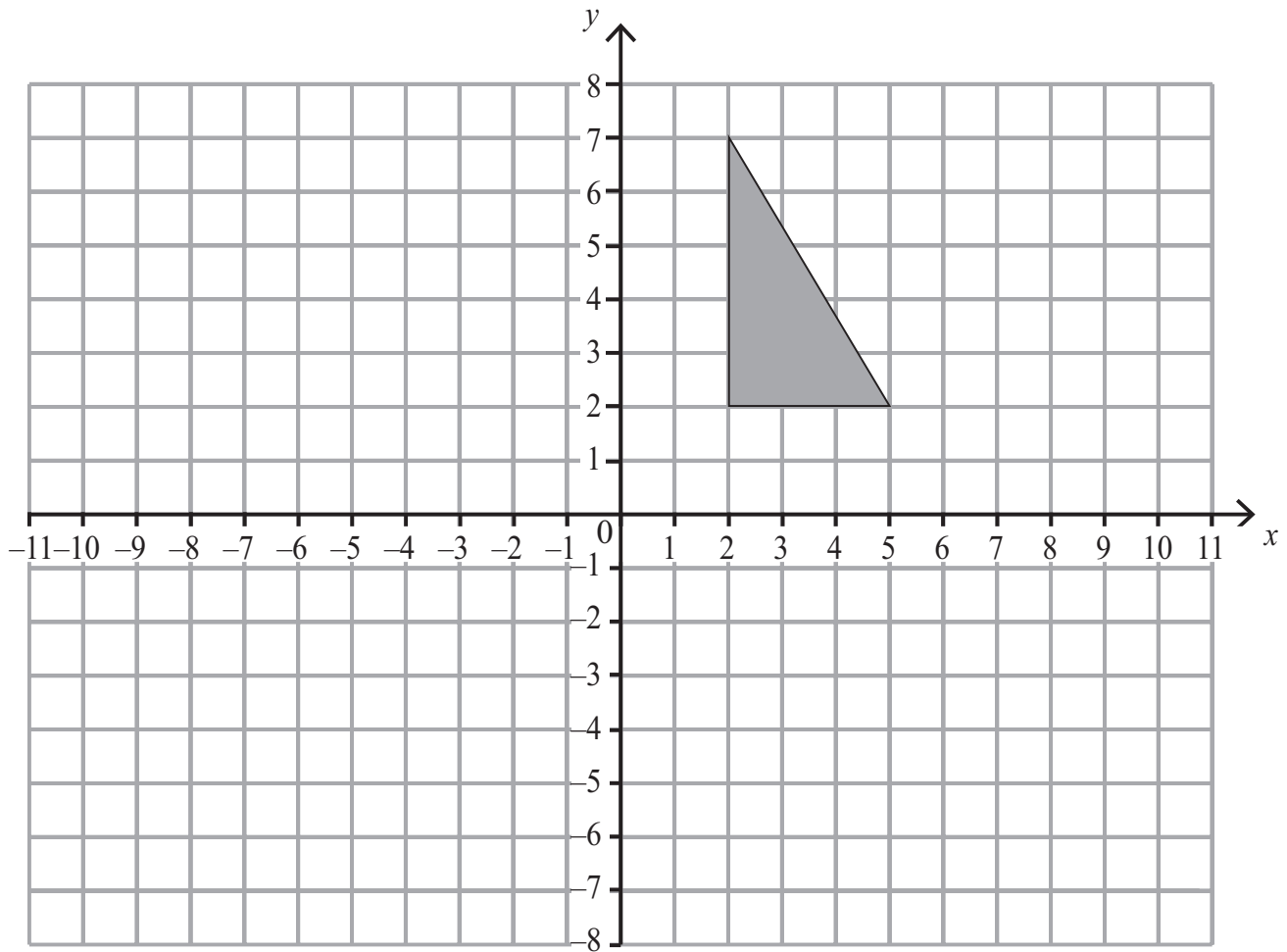
If 5000 passengers bought tickets at this station, estimate how many passengers would be less than 30 years old.

Answer _____ [2]

Total Question 13

[Turn over

15



Draw and shade the image of the triangle after a reflection in the line $y = 1$ [2]

Examiner Only

Marks	Remark
Total Question 15	

Total Question 15

[Turn over

16 John and Mary share £840 in the ratio 2 : 5
How much more money does Mary get than John?

Answer £ _____ [2]

Examiner Only	
Marks	Remark
Total Question 16	
Total Question 17	

17 Find the reciprocal of 1.4
Write your answer as a fraction in its simplest terms.

Answer _____ [2]

18 Simplify $k^3 \times k^3$

Answer _____ [1]

THIS IS THE END OF THE QUESTION PAPER

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Marks Remark

Total Question 18

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For Examiner's use only	
Question Number	Marks
1	
2	
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18	

Total Marks	
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Examiner Number

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