

	Centre Number					
	Ca	ndida	te Nu	mber		

General Certificate of Secondary Education 2018

Mathematics

Unit T5 Paper 2 (With calculator)
Foundation Tier





[GMT52] *GMT52*

THURSDAY 7 JUNE, 10.45am – 11.45am

TIME

1 hour.

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.

Do not write outside the boxed area on each page, on blank pages or tracing paper.

Complete in black ink only. Do not write with a gel pen.

Answer all thirteen questions.

All working should be clearly shown in the spaces provided. 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 6.

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

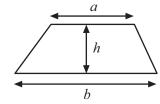
The Formula Sheet is on page 2.



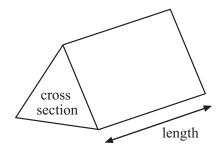
Formula Sheet

Learning Cal

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Volume of prism = area of cross section \times length





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One of the eight dominoes above is taken at random. Complete each of the following.
(a) (i) The most likely total of dots on the domino taken is [1]
(ii) The total number of dots on the domino taken is equally likely to be
2 or or [2]
(b) Is the total number of dots more likely to be odd or even? Answer[1]
(c) Write down a total number of dots with zero probability. Answer [1]
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3 d is a very small decimal (less than 0.01).

Look at the four expressions.

$$d + 100$$

$$100 - d$$

$$100 \times d$$

(a) Which of these is the largest?

Answer _____ [1]

(b) Which of these is the smallest?

Answer [1]

4 A B R A C A D A B R A

One letter is taken at random from the list above.

Use the letters A, B, C, E to mark the probabilities of each event on the scale below.

A: the probability of A being taken,

B: the probability of B being taken,

C: the probability of C being taken,

According to the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont

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E: the probability of E being taken.

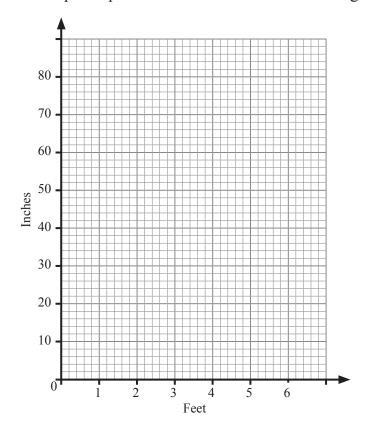
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[4]

[Turn over

5 1 foot = 12 inches

(a) Use this information to plot 3 points and then draw a conversion graph.



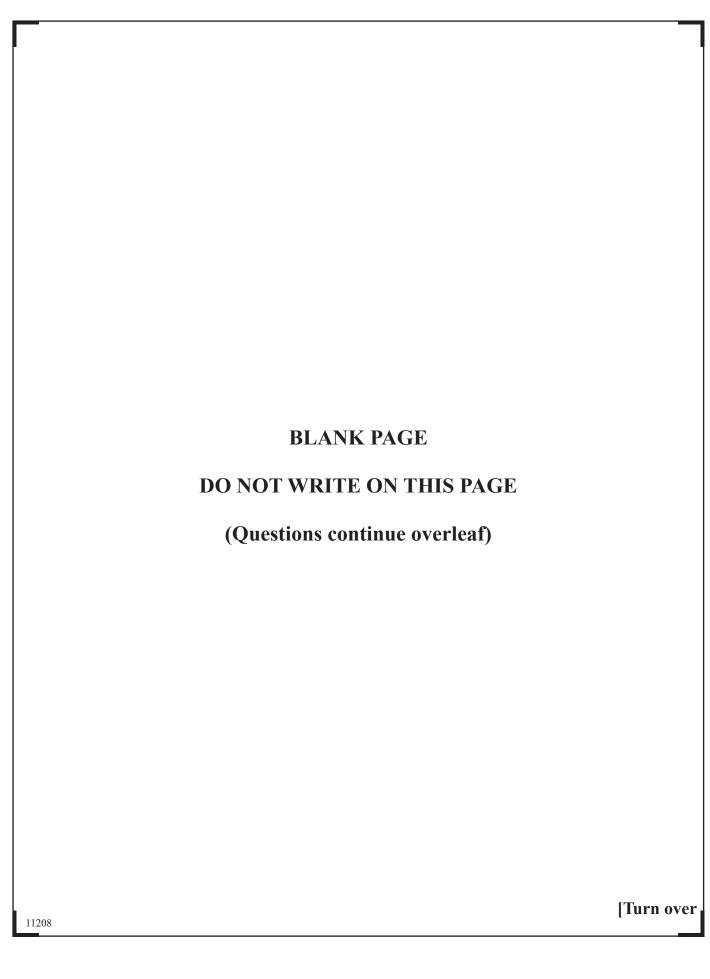
(b) Cory measured a distance of 10.4 feet.

Explain clearly how you can use your graph to find out how many inches this is.

__ [2]

[3]





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Quality of written communication will be assessed in this question.

6 Jack takes Jill to an Indian restaurant.

Jack will pay by cash if he has enough otherwise he will pay by credit card.

They each order a starter, a main course and a side dish from the menu below.

Starter	
Prawn Puri	£3.95
Onion Bhagee	£3.25
Chicken Pakora	£3.75
Garlic Mushroom	£3.25
Tandoori Mix	£4.30

Main	
Tandoori Chicken	£9.95
Lamb Shalik	£10.25
King Prawn Masala	£10.45
Chicken Korma	£8.75
Vegetable Biryani	£7.25

Side Dish					
Pilau Rice	£1.95				
Naan	£1.95				
Chapati	£1.85				
Chips	£2.25				
Side Salad	£1.70				

DE Learning

Jack orders Chicken Pakora, King Prawn Masala and Pilau Rice.

Jill orders Garlic Mushroom, Vegetable Biryani and Naan.

Jack has £28 cash.

(a) Will Jack pay by cash or credit card?

You must show all your working.

Answer	[4]
	 L ' J



		[2

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7 (a) *n* is any whole number greater than 2

What type of whole number is 2n - 3?

Answer _____ [1]

20 7 Learning

(b) A is a prime number.

B is an odd number.

Orla says that $A \times B$ is always odd.

Give a counter-example to show that Orla is wrong.

Answer
$$A =$$
, $B =$ [2]



8 Rory travels to work Monday to Friday.

He can travel by car or by train.

Use the following information to decide the cheapest way he can go.

	4 r
\mathbf{v}	aı

Distance 56 miles (return) per day

Fuel consumption 8 miles per litre

Diesel Cost £1.14 per litre

Train

Weekly Return Ticket £39

Daily Return Ticket £9

Show all your working out.

Answer _____[3]

[Turn over

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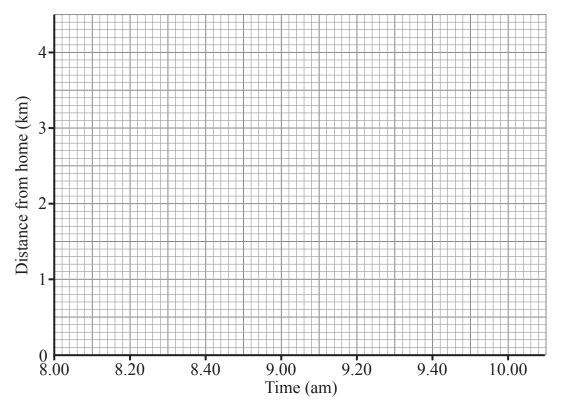
9 Clare works in a library and cycles from home at a steady speed.

She leaves home at 8.10 am.

After 30 minutes she gets a puncture when she is 2 km from home.

It takes 10 minutes to fix the puncture.

(a) Show this information on the graph for Clare's journey.



(b) The library is 4 km from Clare's house.

Clare completes her journey at an average speed of 8 km/hr.

Show the last part of her journey on the graph.

[2]

[2]

(c) How late after 9 am does she arrive?

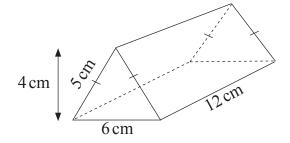
Answer _____ minutes [1]



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Calculate the **total** surface area of this triangular prism.

Answer _____ cm² [3]

[Turn over



11 The headmaster of Happy Valley High School records how long his Year 11 and Year 12 pupils take to get to school.

Time t (minutes)	Number in Year 11	Number in Year 12
0 < t ≤ 10	15	17
10 < t ≤ 20	28	25
20 < t ≤ 30	34	40
30 < t ≤ 40	3	4

The headmaster takes a pupil at random from Year 11

(a) What is the probability the Year 11 pupil gets to school in 20 minutes or less?

Answer _____ [2]

DE Learning

Later, the headmaster takes one pupil at random from the whole of Year 11 and Year 12

(b) What is the probability that this pupil gets to school in 20 minutes or less?

Answer [2]



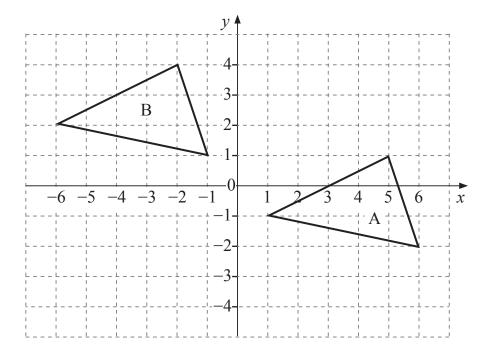
There are 450 pupils in Happy Valley High School. (c) Estimate the number of pupils at this school who take longer than 30 minutes to get to school. Show clearly how you get your answer. Answer _____ [3]

Turn over



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Answer			
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Remarks

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Research

Description

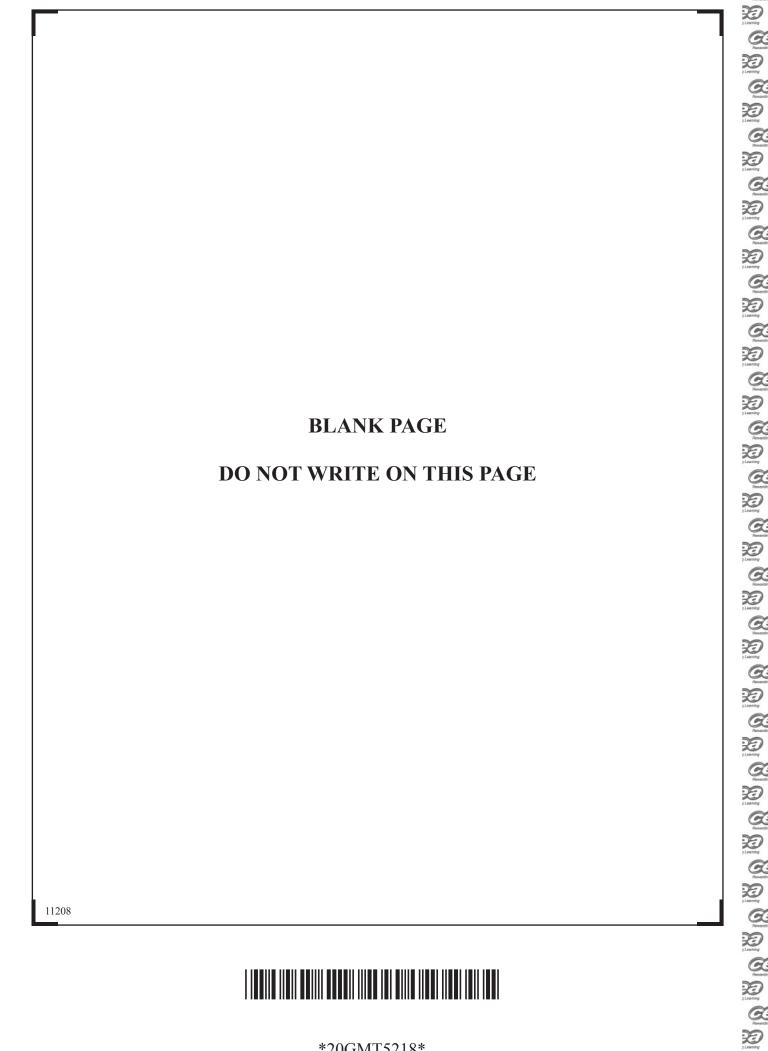
Total



	<u> </u>	
13 A sum of money was divided between Ann and Brian in the ratio 3:7		
	Ann received £30 less than Brian.	
	How much did each person receive?	
	Answer Ann £	
	Brian £[3]	
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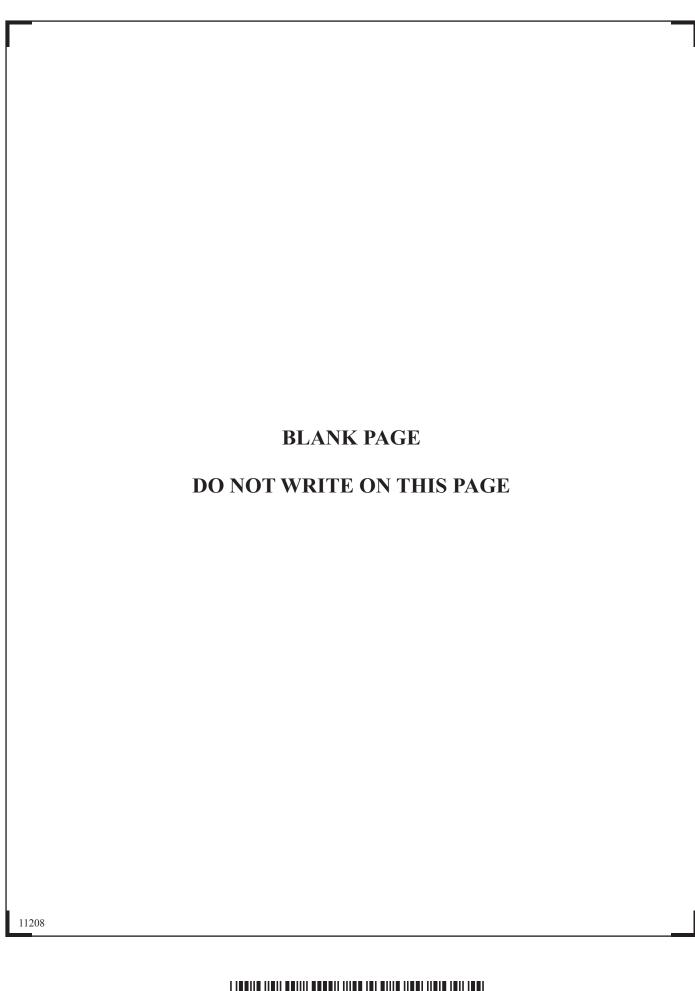
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