

	Centre Number				
Candidate Number					

General Certificate of Secondary Education Summer 2018

## **Mathematics**

Unit T5 Paper 1 (Non-calculator) Foundation Tier





\*GMT51\*

## THURSDAY 7 JUNE, 9.15am–10.15am

#### TIME

**[GMT51]** 

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 sixteen questions.

All working should be clearly shown in the spaces provided. Marks may be awarded for partially correct solutions.

You **must not** 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 10.

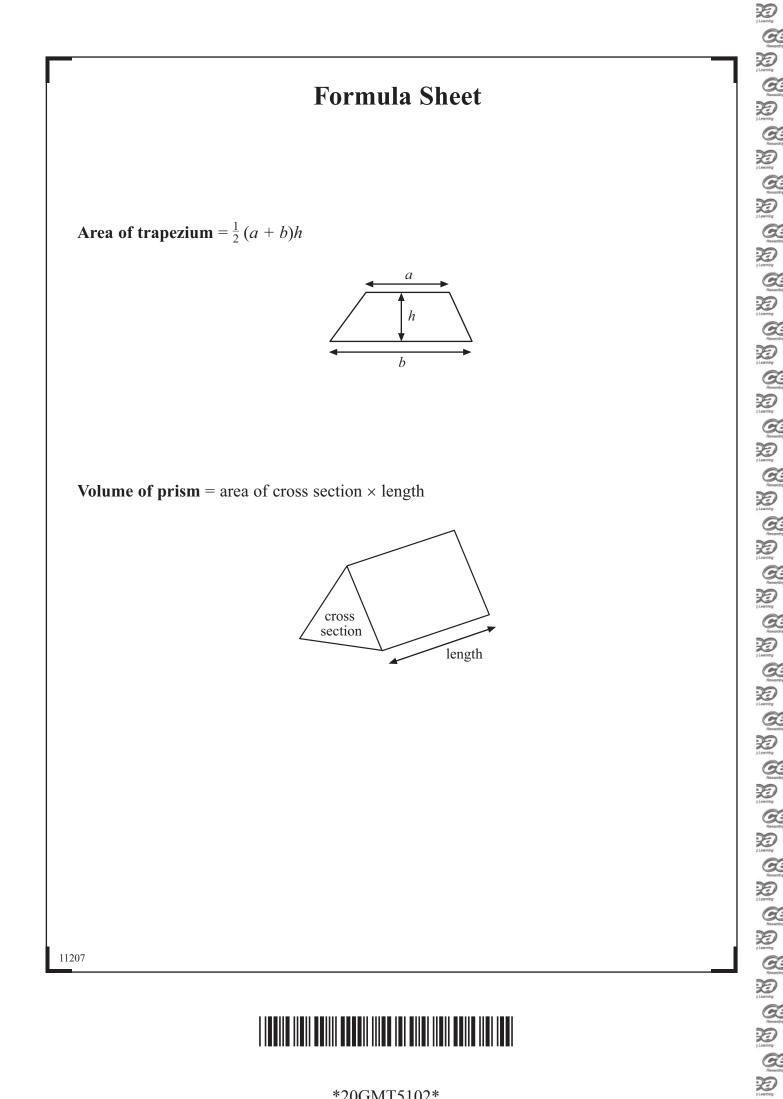
You should have a ruler, compasses and a protractor.

The Formula Sheet is on page 2.

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### \*20GMT5101\*



\*20GMT5102\*

C.

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(Questions start overleaf)

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\*20GMT5103\*

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1	<b>(a)</b>	Estimate the total	weight of 83	cars each weighing 1	.85 tonnes.
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Answer	tonnes [2	2]	
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(b) Estimate how many cycle helmets costing  $\pounds 5.85$  each can be bought for  $\pounds 50$ 

Answer [2]

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\*20GMT5104\*

#### THE MOBILE MAGICIAN

Hire me for your children's party

Cost for show £55

Plus £4 per child

Travel costs: 50p per mile

Hazel hires the mobile magician for her children's party.

There are 10 children.

The magician travels a distance of 20 miles.

How much will it cost Hazel?

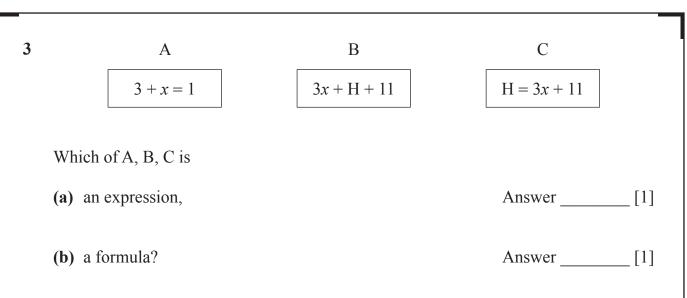
Answer £ [3]

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[Turn over

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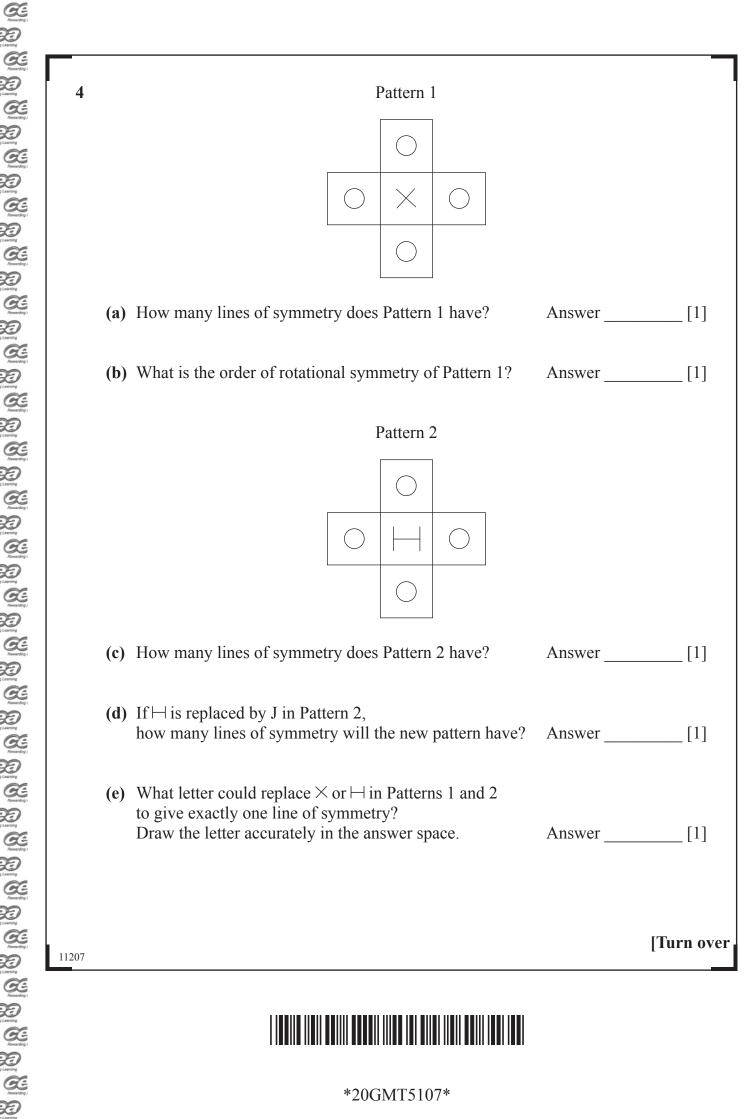
\*20GMT5105\*





\*20GMT5106\*

a



\*20GMT5107\*

5	(a) Write these measure	ements in order from	shortest to longest.		
	2 feet	2 yards	2 inches	2 miles	
	Answer	,	,	. ,	[1]
	(b) Write these measure	ements in order from	lightest to heaviest.		
	3 tons	3 ounces	3 stone	3 pounds	
	Answer			. ?	[1]
6	Keith says that $4 + 14 \div$ Eric says that $4 + 14 \div 2$ Who is right? Show your working clear	2 = 11			
11207	Answer bea				[2]

\*20GMT5108\*

Breena is ordering ice cream. She must choose a flavour and how it is served. She can order Honeycomb, Strawberry or Vanilla. She can have it served in a Cone, a Wafer or a Tub.

(a) List all the possible choices she can make.

(b) What is the probability that Breena will choose Vanilla ice cream?

		Answer [1]
8	(a) Estimate $\sqrt{3}$	Answer [1]
	(b) Write 26.873 to 1 decimal place.	Answer [1]
	(c) Write 19.897 to 2 decimal places.	Answer [1]
11207		[Turn over

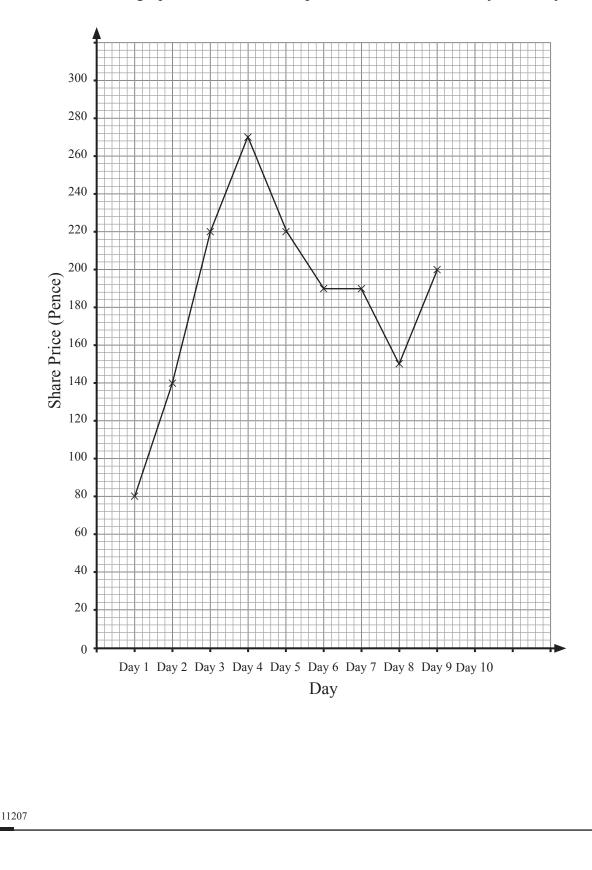
[2]

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\*20GMT5109\*

9 Annette owns shares in a company.

She draws a graph to show the share price at the end of each day for 9 days.





\*20GMT5110\*

(a)	What is the difference in £ between the Day 1 price and the Day 9 price?		
	Answer £ [2]		
(b)	The share price on Day 10 is double the share price on Day 1		
	Plot on the graph the Day 10 price. [1]		
(c)	Annette had considered selling her shares. On which of the 10 days should she have sold her shares? Explain your answer.		
	Answer Day because		
	[1]		

[Turn over

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#### Quality of written communication will be assessed in this question.

**10** Here are 3 different formulae for T:

Formula 1 T = a + bFormula 2  $T = \frac{a}{b}$ Formula 3 T = ab

Which formula gives the largest value for T when a = -6 and b = 2?

Show all your working clearly.

Answer Formula [3]

11 P = 3L + 2W

Find the value of W when P = 84 and L = 20

Answer	[3]

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\*20GMT5112\*

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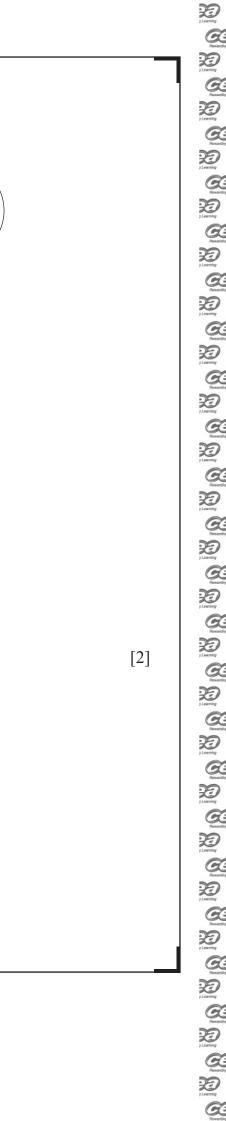
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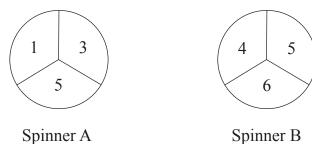


\*20GMT5113\*



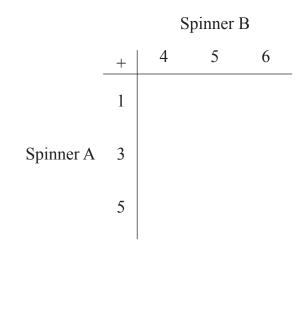
**12** Three friends play a game with two fair spinners.

The spinners are numbered 1, 3 and 5 and 4, 5 and 6



Each of the spinners is spun and the numbers are added together.

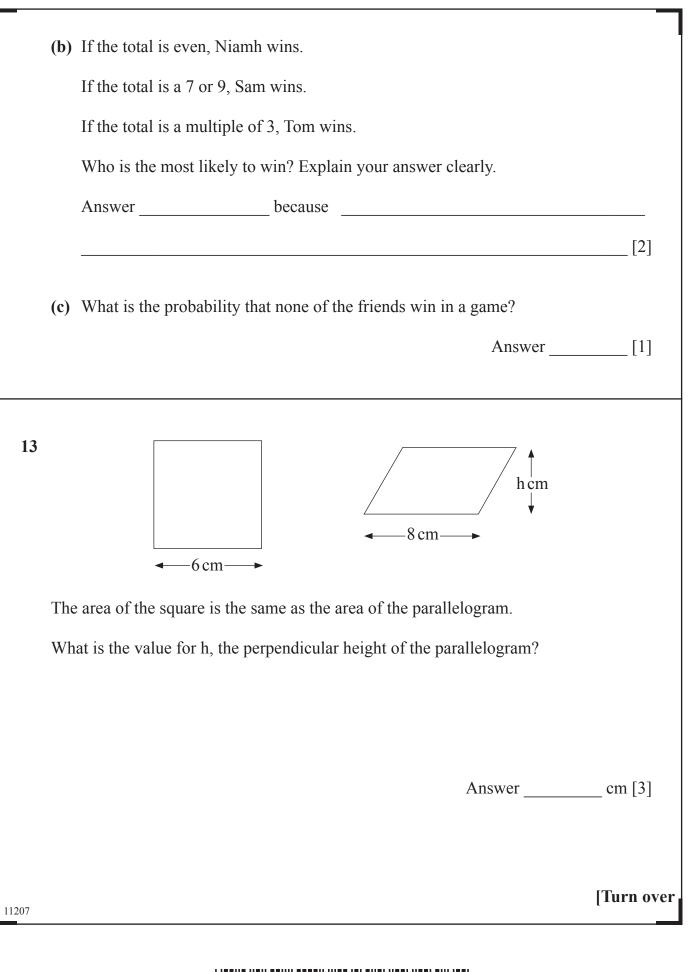
(a) Complete the table to show all the possible total scores.



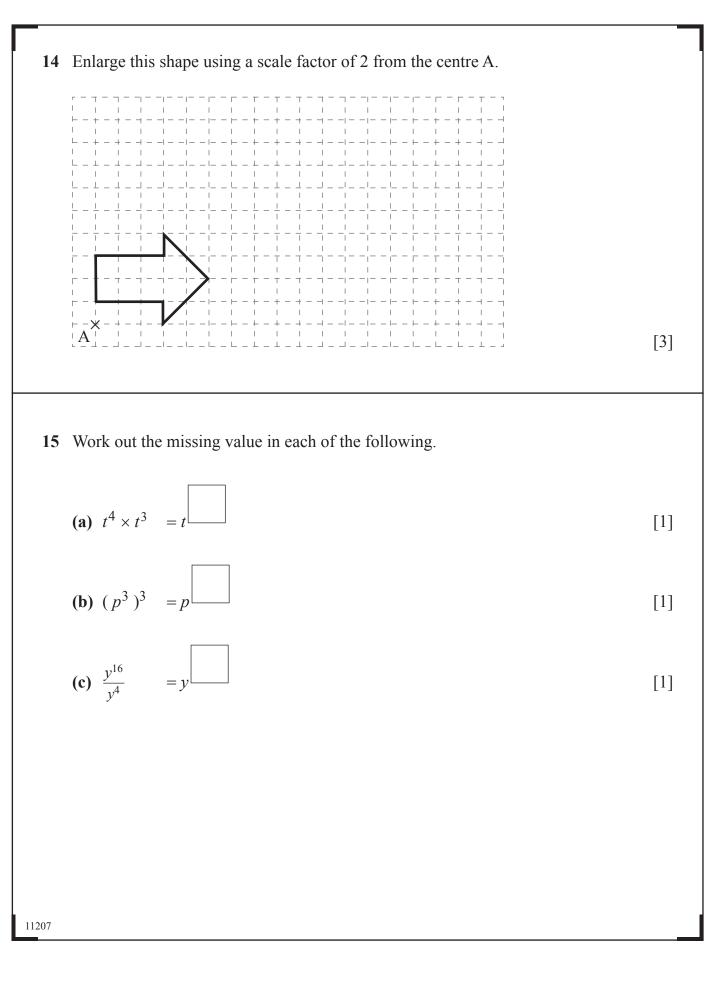
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\*20GMT5114\*



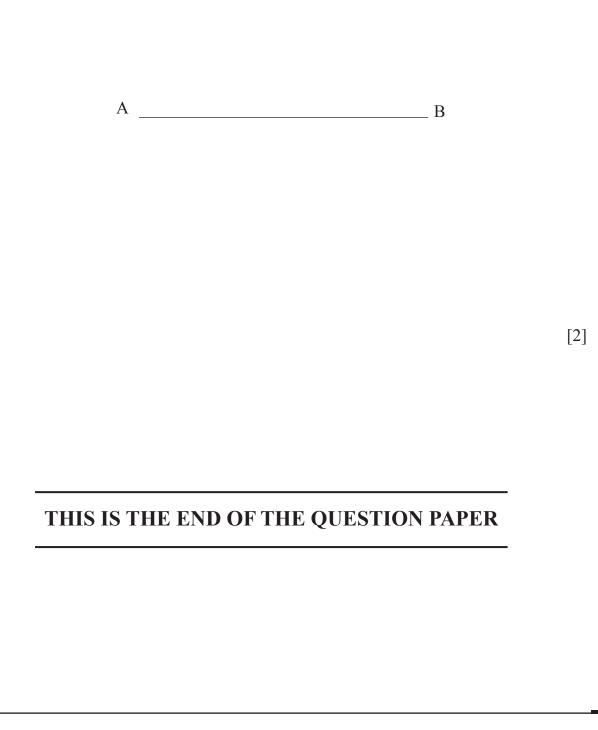
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\*20GMT5116\*

16 Using a ruler and compasses only, construct a line from the point C to cross the line AB at right angles. Leave in all your construction arcs.

C ×





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\*20GMT5119\*

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For Examiner's use only		
Question Number	Marks	
1		
2		
3		
4		
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7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
Total Marks		

**Examiner Number** 

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\*20GMT5120\*