





	Centre Number	Candidate Number
Friday 20 Ma	ay 2022	
Morning (Time: 1 hours 30 r	minutes)	
<b>Mathematics</b>		
Paper 1 (Non-Calcula	ator)	
Foundation Tier	·	J
You must have: Ruler gradua protractor, pairs of compass Tracing paper may be used.		

Student Self Reflection

Topics I need to revise

Topics I need to learn

Silly Mistakes?

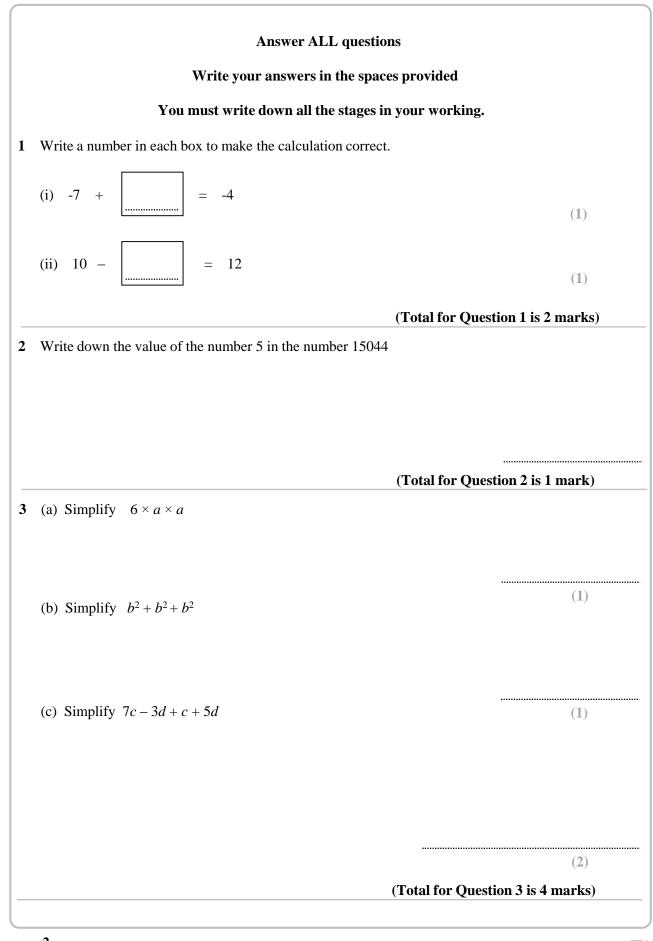
Target mark for next time

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Video Solutions



4 Torie collects toy cars of different colours.

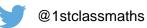
The pictogram shows the number of toy cars that she has that she has that are red and that are green.

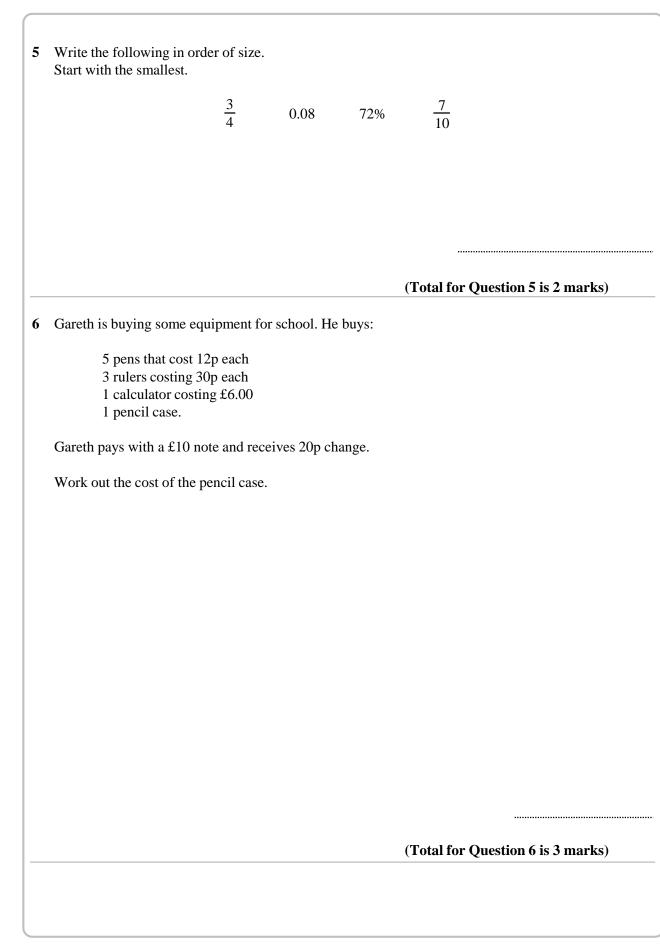
Red Blue		Key:
Yellow		
(a) Write down the num	ber of red toy cars that Torie has.	
Torie has 5 blue toy car In total Torie has 21 toy		(1)
	to complete the pictogram.	

(3)

(Total for Question 4 is 4 marks)









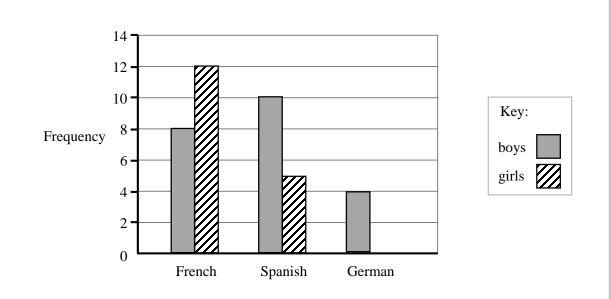
Video Solutions

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4



7 A teacher asks the members of languages club which language is their favourite to study. The dual bar chart shows some of the results.



More students selected French than selected Spanish.

(a) How many more students?

9 girls selected German.

(b) Show this information in the dual bar chart.

(c) In total, how many students attended languages club?

(2) (Total for Question 7 is 4 marks)



(1)

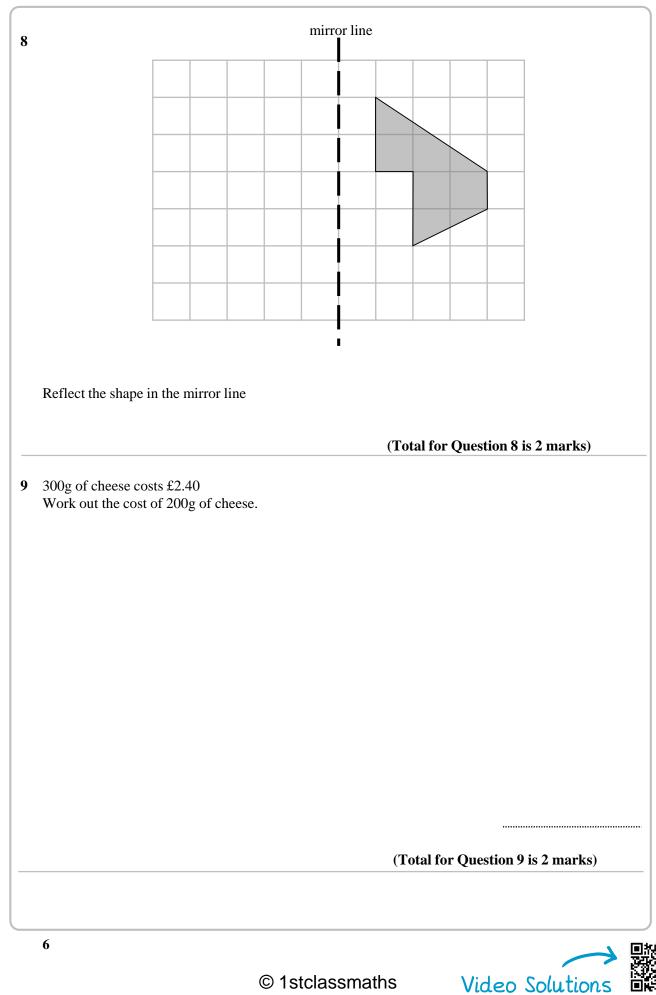
(1)

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10 $R = 3u + 4$ (a) Work out the value of $R$ when $u = 5$ (b) Work out the value of $u$ when $R = 43$ (2)         (2)         (1)         Marianna runs 1.2 km.         Ian runs 25% further than Marianna.         Work out how far Ian runs.         Give your answer in metres.         (2)         (2)         (2)         (2)         (2)         (2)         (2)         (3)         (2)         (2)         (2)         (2)         (2)         (2)         (2)         (2)         (2)         (2)         (3)         (4)         (5)         (1)         (2)         (1)         (3)         (4)         (5)         (7)         (7)         (8)         (9)         (1)         (1)         (2)         (1)         (1)         (2)         (2) <tr< th=""><th></th><th></th><th></th></tr<>			
(b) Work out the value of <i>u</i> when <i>R</i> = 43 (2) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	10	R = 3u + 4	
(2) (b) Work out the value of <i>u</i> when <i>R</i> = 43 (2) (2) (2) (2) (1) (1) Marianna runs 1.2 km. Ian runs 25% further than Marianna. Work out how far Ian runs. Give your answer in metres.		(a) Work out the value of <i>R</i> when $u = 5$	
(2) (b) Work out the value of <i>u</i> when <i>R</i> = 43 (2) (2) (2) (2) (1) (1) Marianna runs 1.2 km. Ian runs 25% further than Marianna. Work out how far Ian runs. Give your answer in metres.			
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(c) from our are function if matrix = 15 			
(2) I Marianna runs 1.2 km. Ian runs 25% further than Marianna. Work out how far Ian runs. Give your answer in metres.		(b) Work out the value of $u$ when $R = 43$	(2)
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11 Marianna runs 1.2 km. Ian runs 25% further than Marianna. Work out how far Ian runs. Give your answer in metres.			
Ian runs 25% further than Marianna. Work out how far Ian runs. Give your answer in metres.			(Total for Question 10 is 4 marks)
		Ian runs 25% further than Marianna. Work out how far Ian runs.	



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	24	38	47	42	44	31	53	40	55	59
	45	27	26	44	51	35	35	39	41	62
(a) Show	this in	formatio	on in a st	em and	leaf diag	gram.				
										(3)
	ļ									
0	•									
One of the						1 2	0	11		
(b) Write o	iown t	ne proba	adility th	at this te	eacher 1s	under 3	0 years (	510.		
										(1)
							(Tota	l for Qu	estion 1	2 is 4 marks



Video Solutions

13 Tom drives a journey in two parts.

The first part of the journey Tom drives for 2 hours at 60 mph. The second part of the journey Tom drives for 1 hour 30 minutes at 50 mph.

Tom claims that he drives over 200 miles in total. Show that Tom is wrong.

(Total for Question 13 is 3 marks)

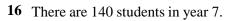


	7	11	15	19	
Write down an exp.			for the <i>n</i> th	term of the sequence.	
The <i>n</i> th term of a a	nother sequ	ience is giv	en by the e	expression $5n - 2$	(2)
(b) Find the 7 <sup>th</sup> term	n of this sec	juence.			
				(Total for Ques	(1) tion 14 is 3 marks)
W/ all and an addition	49	9 × 31		(Total for Ques	
Work out an estim	ate for <u> </u>	9.88			
					tion 15 is 3 marks)



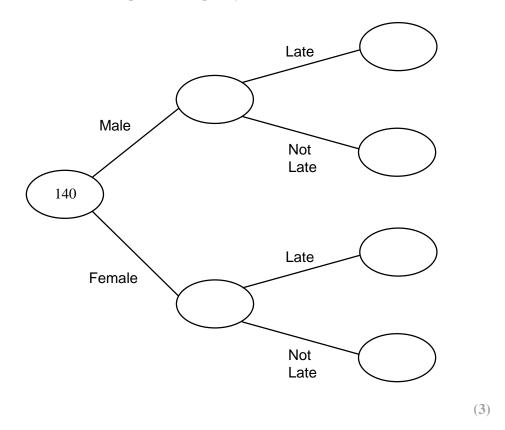
Video Solutions

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75 of the students are male.13 males were late to school.8 females were late to school.

(a) Use this information to complete the frequency tree.



One of the 140 students is chosen at random.

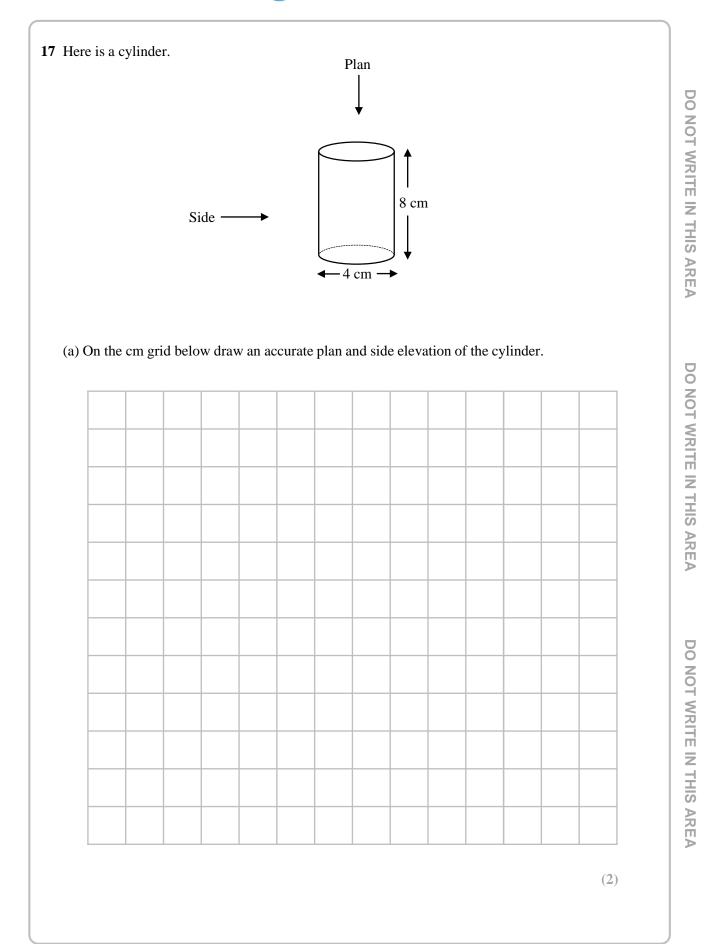
(b) Write down the probability that this student is a male who was late to school.

(Total for Question 16 is 4 marks)



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(1)







17	(b) Find the volume of the cylinder. Give your answer in terms of π.	Image: constraint of the second se
		13

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<b>18</b> Write 126 as a product of its prime factors.		DONOTWR
		DO NOT WRITE IN THIS AREA
	(Total for Question 18 is 2 marks)	DO NOT WRI
<b>19</b> Solve $9p < 48 - 3p$		DO NOT WRITE IN THIS AREA
		DO NOT WRITE IN THIS AREA
	(Total for Question 19 is 2 marks)	SAREA

Video Solutions

20 (a) Write  $6.25 \times 10^{-3}$  as an ordinary number.

(b) Work out  $(7 \times 10^{12}) \times (4 \times 10^3)$ Give your answer in standard form.

(2)

.....

(1)

(Total for Question 20 is 3 marks)

**21** Helen and Emma share some money in the ratio 2 : 5 Emma receives £21 more than Helen.

Work out how much money Emma receives.



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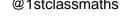
(Total for Question 21 is 3 marks)

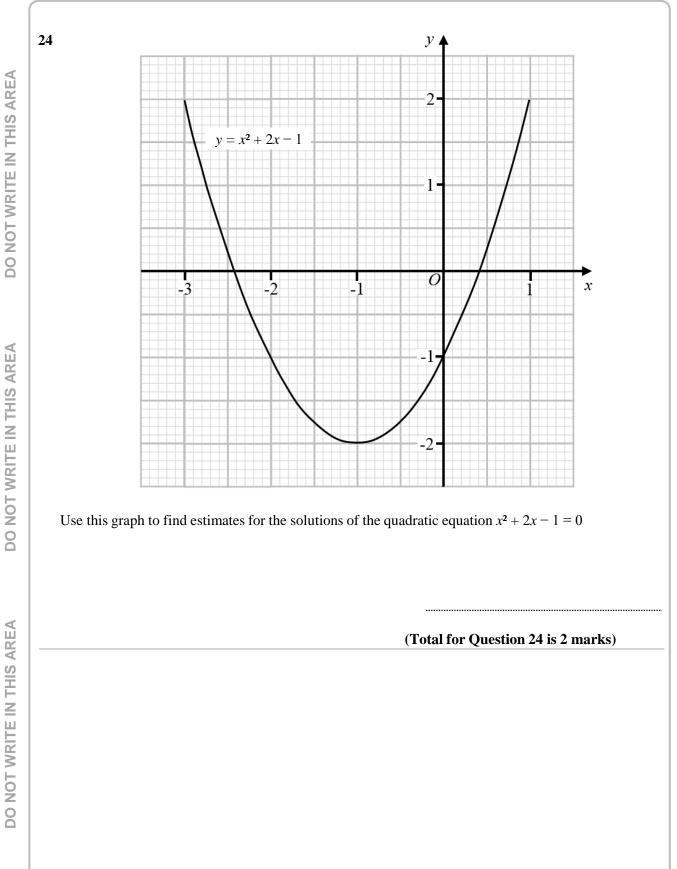
<b>22</b> (a) Work out $\frac{4}{3}$ of 24	
(b) Work out $4\frac{2}{3} + 3\frac{1}{4}$	(1)
	(2) (Total for Question 22 is 3 marks)
<b>3</b> The diagram show a solid cube.	
The cube has a mass of 16 grams. Work out the density of the cube.	4 cm
	4 CHI
	g/cm <sup>3</sup>
	(Total for Question 23 is 3 marks)

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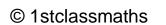
**25** *ABCDE* is a pentagon. The pentagon has one line of symmetry. CВ

A

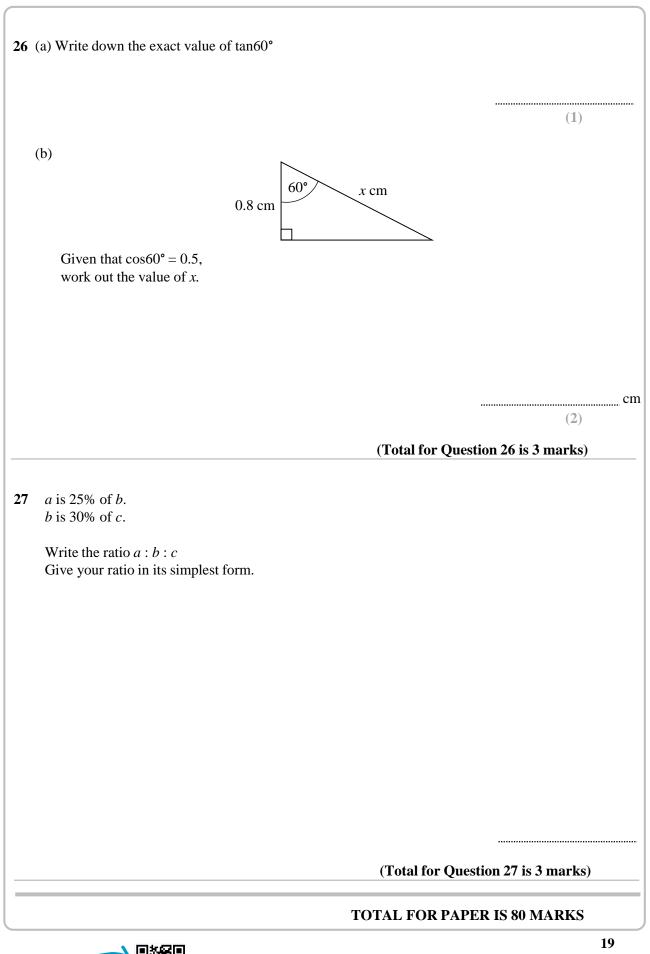
Angle  $ABC = 4 \times$  angle BCD.

Work out the size of angle BCD. You must show all your working. DO NOT WRITE IN THIS AREA

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