Surname					
Forename(s)				1 1	
Signature					
<u> </u>					
Thursday 3 November 2022 Mor	rning	Time al	lowed: <sup>2</sup>	1 hour	· 30 mir
Student Self Reflection					
Student Self Reflection			F	or teac	her use
Student Self Reflection opics/Question I need to <i>revise</i>			<b>F</b> Pa	or teac ages 2-3	<b>:her use</b> Mark
Student Self Reflection opics/Question I need to <i>revise</i>			F Pa	or teac ages 2-3 4-5	<b>:her use</b> Mark
Student Self Reflection opics/Question I need to <i>revise</i>			Pa	or teac ages 2-3 4-5 6-7	<b>her use</b> Mark
Student Self Reflection opics/Question I need to <i>revise</i>			Pa	or teac ages 2-3 4-5 6-7 8-9	<b>her use</b> Mark
Student Self Reflection opics/Question I need to <i>revise</i>				or teac ages 2-3 4-5 6-7 8-9 0-11	<b>her use</b> Mark
opics/Question I need to <i>revise</i>			F Pa 2 10 11	or teac ages 2-3 4-5 6-7 8-9 0-11 2-13	her use Mark
Student Self Reflection opics/Question I need to <i>revise</i>			F Pa 2 1 1 1 1	or teac ages 2-3 4-5 6-7 8-9 0-11 2-13 4-15	her use Mark
opics/Question I need to <i>revise</i>			F Pa 2 10 11 12 14 10	or teac ages 2-3 4-5 6-7 8-9 0-11 2-13 4-15 6-17	her use Mark
<u>Fopics/Question I need to revise</u>			F Pa 2 10 11 12 14 10 11	or teac ages 2-3 4-5 6-7 8-9 0-11 2-13 4-15 6-17 8-19	cher use Mark
Student Self Reflection Topics/Question I need to <i>revise</i> Fopics/Questions I need to <i>learn</i>			F Pa 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	or teac ages 2-3 4-5 6-7 8-9 0-11 2-13 4-15 6-17 8-19 0-21	her use Mark





2





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		) 3			
1	Circle the value of	5 <sup>4</sup>			Do out [1 mark]
	20	54	125	625	
5 (a)	Write the following u Start with the smalle	units in order of size est.			[1 mark]
	metres	millimetres	kilometres	centimetres	
	Answer				
	Answer				_
5 (b)	Answer Write a suitable uni One has been done	t for measuring eacl of or you	n amount.		[2 marks]
ō (b)	Answer Write a suitable uni One has been done	t for measuring each a for you	n amount. U	nit	[2 marks]
5 (b)	Answer Write a suitable unit One has been done	t for measuring each for you f a football pitch	n amount. U me	nit etres	[2 marks]
5 (b)	Answer Write a suitable unit One has been done Length o Amount o	t for measuring each for you f a football pitch f water in a bath	n amount. U me	nit etres	[2 marks]

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Video Solutions



	Torie collects toy cars of different colours.	Do not write outside the box
	The pictogram shows the number of toy cars that she has that she has that are green.	
	Key: represents 4 toy cars	
	Red	
	Blue	
	Yellow	
(a)	How many red cards does Torie have? [1 mark	]
	Answer	
	Torie has 5 blue toy cars. In total Torie has 21 toy cars.	
(b)	Use this information to complete the pictogram. [2 marks	5]
	(a) (b)	Torie collects toy cars of different colours.     Key:     represents 4 toy cars     Blue   Yellow     Yellow     (a) How many red cards does Torie have?     If market     Answer   Torie has 5 blue toy cars.      Torie has 5 blue toy cars.   (b) Use this information to complete the pictogram.



<ul> <li>7 Here are four numbered cards.</li> <li>2 3 4 6</li> <li>Sophia uses each card once to make two, 2-digit numbers. She then multiplies the numbers together.</li> <li>Sophia arranges the numbers in the following way.</li> <li>2 3 × 4 6 = 1058</li> <li>Sophia says: "1058 is the smallest possible answer that I can get from multiplying two 2-digit numbers using these cards"</li> <li>7 (a) By finding a lower possible answer, show that Sophia is wrong. [1 mark]</li> </ul>	
2       3       4       6         Sophia uses each card once to make two, 2-digit numbers. She then multiplies the numbers together.       Sophia arranges the numbers in the following way.         2       3       ×       4       6       =       1058         Sophia says: "1058 is the smallest possible answer that I can get from multiplying two 2-digit numbers using these cards"       [1 mark]         7       (a)       By finding a lower possible answer, show that Sophia is wrong.       [1 mark]	Do not v outside box
Sophia uses each card once to make two, 2-digit numbers. She then <b>multiplies</b> the numbers together. Sophia arranges the numbers in the following way. 2 3 × 4 6 = 1058 Sophia says: "1058 is the smallest possible answer that I can get from multiplying two 2-digit numbers using these cards" 7 (a) By finding a lower possible answer, show that Sophia is wrong. [1 mark]	
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2       3       ×       4       6       = 1058         Sophia says: "1058 is the smallest possible answer that I can get from multiplying two 2-digit numbers using these cards"         7       (a) By finding a lower possible answer, show that Sophia is wrong.       [1 mark]	
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7 (a) By finding a lower possible answer, show that Sophia is wrong. [1 mark]	
7 (b) Write down the lowest possible answer that Sophia could have made. [1 mark]	
Answer	
	5

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Video Solutions









outside the box Toby adds some fractions. His working out is shown below. 11  $\frac{1}{5} + \frac{3}{8}$  $=\frac{8}{40}+\frac{5}{40}$  $=\frac{13}{40}$ Explain the mistake that Toby has made. [1 mark] 12 m = -9[1 mark] Circle the value of  $m^2$ -3 3 -81 81



Do not write

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**13** An energy company charges customers according to the following table. Customers pay a fixed daily charge plus a cost for each unit of energy used.

	Daily Charge	Cost per Unit
Electricity	14p	34p
Gas	8p	10.3p

The table below shows Gill's energy use for three months.

	Month 1	Month 2	Month 3
Electricity (units used)	350	360	320
Gas (units used)	612	718	942

Each of the months has 31 days.

Work out the total cost of Gill's energy bill for these three months.

[5 marks]



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Fiona's hourly pay in 2022 is £9.50       In 2023 she will receive a 4% pay increase.         Work out Fiona's hourly pay in 2023.       [3 marks]	J.	@1stclassma	ths	10			
Fiona's nouny pay in 2022 is £9.50         In 2023 she will receive a 4% pay increase.         Work out Fiona's hourly pay in 2023.         [3 marks]         £         A bag contains counters of four different colours.         A counter is randomly selected from the bag.         The probability of selecting a counter of a given colour is shown below.         Colour       Red         Blue       Yellow         Probability of selecting a yellow counters is the same as the probability of selecting a green counter.         Work out the probability of selecting a yellow counter.       [3 marks]							
Image: Work out Fiona's hourly pay in 2023.       [3 marks]         Image: I		Fiona's hourly pay In 2023 she will re	y in 2022 is £9 eceive a 4% pa	9.50 ay increase.			
£         A bag contains counters of four different colours.         A counter is randomly selected from the bag.         The probability of selecting a counter of a given colour is shown below.         Image: Colour Red Blue Yellow Green Probability 0.6 0.1         Probability 0.6 0.1         The probability of selecting a yellow counters is the same as the probability of selecting a green counter.         Work out the probability of selecting a yellow counter.         [3 marks]		Work out Fiona's	hourly pay in 2	2023.			[3 marks]
£         A bag contains counters of four different colours.         A counter is randomly selected from the bag.         The probability of selecting a counter of a given colour is shown below.         Image: Colour Red Blue Yellow Green Probability 0.6 0.1         Probability of selecting a yellow counters is the same as the probability of selecting a green counter.         Work out the probability of selecting a yellow counter.         [3 marks]							
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A bag contains counters of four different colours. A counter is randomly selected from the bag. The probability of selecting a counter of a given colour is shown below. Colour       Red       Blue       Yellow       Green         Probability       0.6       0.1       Other controls and the same as the probability of selecting a yellow counters is the same as the probability of selecting a green counter.         Work out the probability of selecting a yellow counter.       [3 marks]			£				-
Colour       Red       Blue       Yellow       Green         Probability       0.6       0.1		A bag contains co A counter is rando The probability of	ounters of four omly selected selecting a co	different colo from the bag ounter of a giv	urs. en colour is s	hown below	
Probability       0.6       0.1         The probability of selecting a yellow counters is the same as the probability of selecting a green counter.       Work out the probability of selecting a yellow counter.		Colour	Red	Blue	Yellow	Green	
The probability of selecting a yellow counters is the same as the probability of selecting a green counter. Work out the probability of selecting a yellow counter. [3 marks]		Probability	0.6	0.1			
		The probability of of selecting a gree Work out the prob	selecting a ye en counter. pability of sele	ellow counters	s is the same a counter.	as the proba	bility [3 marks]
Answer			Answer				





A compan The inforn	nation below shows how f	duce cans. ast each machine produces cans	5.
	Machine A 825 cans in 22 minutes	Machine B 1719 cans in 45 minutes	
Which ma You <b>must</b>	chine produces cans at th show your working.	ne faster rate?	[3 marks]
	Answer		
Alvin, Sim Alvin has Theodore	Answer non and Theodore all have 5 times as many followers has one third of the follow	e Instagram. s as Simon. wers of Simon.	

Answer : :

Turn over ►

11



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[3 marks]

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5			Do i out
Pawei think	ks of a number.		
The highes	st common factor of his	number and 20 is equal to 5.	
His numbe	r is greater than 30.		
Work out <b>tv</b>	<b>wo</b> possible numbers th	nat Pawel could be thinking of.	[3 marks]
	Answer	and	
c is an integration	ger.		
The cube ro The cube ro	oot of $c$ is between 8 ar oot of $2c$ is between 11	nd 9. and 12.	
Work out a	possible value for $c$ .		[3 marks]
	Answer		





27 A theatre sells three types of tickets, adults, children and seniors.

The composite bar chart shows information about the different tickets sold during one week.





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5	@1stclassmaths   21	
29	m = u + 2p	Do not write outside the box
29 (a)	Find the value of <i>m</i> when	
	$u = 3.2 \times 10^4$ and $p = 2.7 \times 10^3$ [2 marks]	
	Answer	
29 (b)	Rearrange $m = u + 2p$ to make p the subject. [2 marks]	
	Answer	
		8





