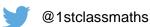
1st Class Maths	PREDI PAP		Vid	eo Solut	L L L L
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Friday 20 May 2022 Student Self Reflection Topics I need to <i>revise</i>			ved: 1 h	For tead Pages 2-3 4-5 6-7	ther use
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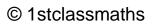
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			2				
		Answer a	II questions in the	spaces provid	ed.		Do not writ outside the box
1	Work out	12 – (-3)					
	Circle your	answer.				[1 mark]	
		-15	-9	9	15		
2	Circle the c	orrect staten	nent				
		$\frac{1}{3} > \frac{1}{4}$	$\frac{1}{3} = \frac{1}{4}$	$\frac{1}{3} \leq \frac{1}{4}$	$\frac{1}{3} < \frac{1}{4}$	[1 mark]	
		0 7	0 4	0 7	0 7		
3	On a circle,	, which of the	e following is a stra	aight line.			
	Circle your	answer.				[1 mark]	
		Arc	Circumference	Chord	Sector		



								Do not writ
4		How many	metres are eq	ual to 2.5 kilor	netres?			outside the box
		Circle your	answer.				[1 mark]	
			05	050	0500	05000		
			25	250	2500	25000		
5	(a)	Work out	34 × 29				[3 marks]	
							[
			Answ	er				
5	(b)	Work out	15.9 + 4.23					
							[2 marks]	
			Answ	er				
							Turn over b	9
							Turn over ►	



Video Solutions



6 Damian is taking part in sports day. As the captain he must take part in three events, one throwing, one running and one jumping.

The list of possible events that he could choose are in the table below.

Throwing	Running	Jumping
Javelin (J)	Sprint (S)	High Jump (H)
Discus (D)	Long Distance (L)	Triple Jump (T)

6 (a) List all the possible combinations of events that Damian could choose.

[2 marks]

Do not write outside the

box

6 (b) What fraction of the possible combinations have discus and high jump?

[1 mark]

Answer





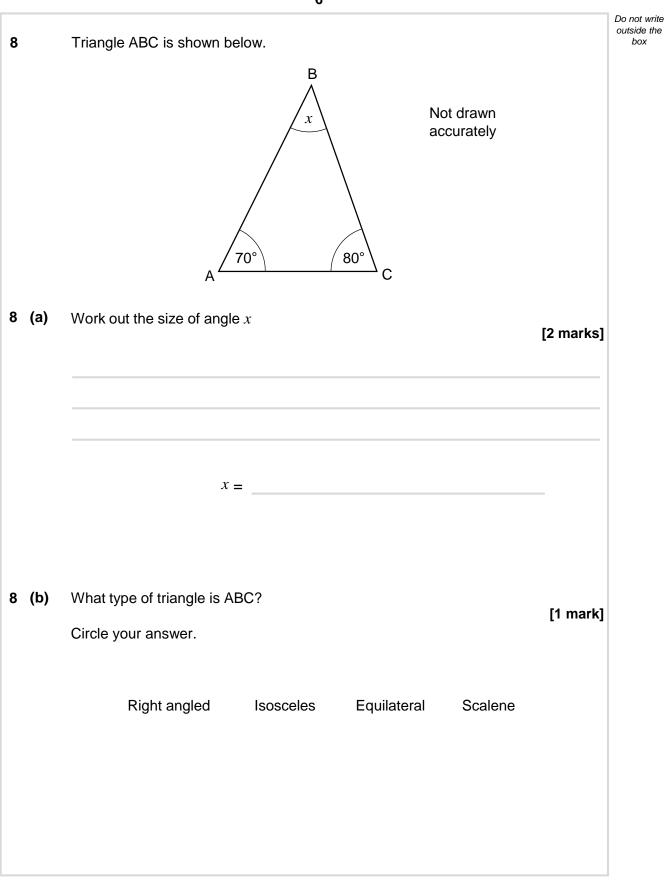
				5					
7		5	+ 8 -	+ 2 +	• 1 :	= 16	5		Do not write outside the box
	Make the fol	lowing ca	Iculations	correct.					
	Use only the	e symbols	+, –,	×, ÷	and	()		[3 marks]	
		5	8	2	1	=	42		
		5	8	2	1	=	0		
		5	8	2	1	=	39		
		I	ſurn over	for next	ques	tion			

Turn over ►



6

6







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7

	rds the temperature on 5 s are shown below.	o different days in January.	
Here results	are shown below.		
	Day	Temperature (°C)	
	Monday	2	
	Tuesday	1	
	Wednesday	11	
	Thursday	3	
	Friday	-2	
Work out the	e mean temperature.		
			[2 marks]
	Answer		
	Answer		
Emma ident		s being an outlier	
	ifies one of the values a	s being an outlier.	[1 mark]
		s being an outlier.	[1 mark]
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10	The term-to-term rule of a sequence is	Do not write outside the box
	Multiply by 3 then subtract 10	
	The first term of the sequence is 4	
	Work out the next three terms of the sequence. [3 marks]	
	Answer,,,	
11	Nish is doing the calculation shown below	
	<u>3.8 × 2304</u> 19	
	Use approximations to 1 significant figure to find an estimate for his calculation. [3 marks]	
	Answer	





	9		
12	Work out 35% of 240		Do not wr outside th box
	Answer		
13	In a bag the ratio of green counters to red counters is $3:7$		
	What fraction of the counters are green?	[1 mark]	
	Answer		
		[
		Turn over ►	10

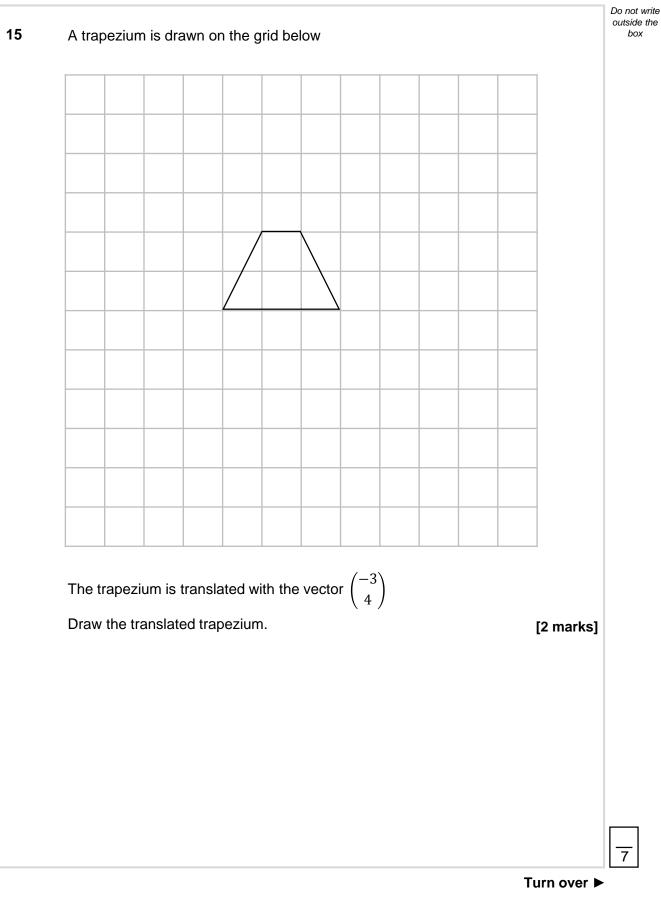


10

14	The table below	shows inform	ation about whic	h sport 300 students	s picked for P.E.
			Football	Hockey	
		Year 7	85		
		Year 8		50	
			Total = 180	Total = 120	
l (a)	Complete the ta	ble.			[2 marks]
4 (b)	What percentag	e of the 300 st	udents picked he	ockey?	[2 marks]
		Answer			
4 (c)	One of the stude	ents is chosen	at random.		
	What is the prob	bability that the	y are a year 7 w	ho chose football?	[1 mark]





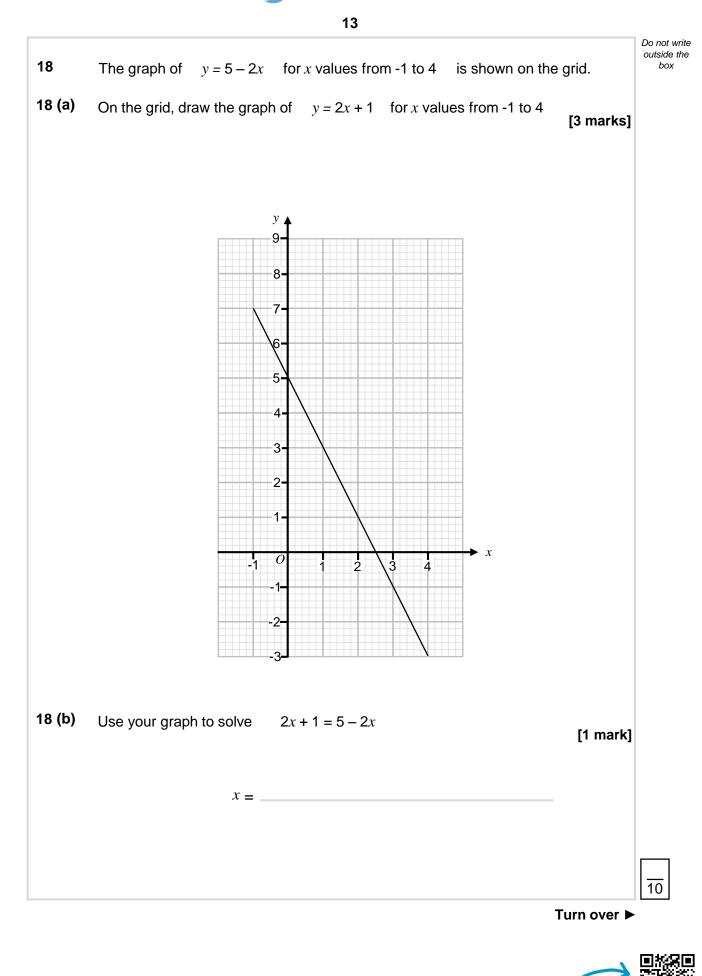




Answer hapes A and B both have the same perimeter. $x \xrightarrow{Bcm} 4cm \underbrace{5cm}_{4cm} Not drawn accurately}_{5cm}$ Not drawn accurately a		mass of 300g and		cm ³	
Answer hapes A and B both have the same perimeter. $x = \frac{8 \text{cm}}{4 \text{ cm}} = \frac{5 \text{cm}}{7 \text{ cm}} = \frac{\text{Not drawn}}{4 \text{ cm}}$ Answer An	Calculate the	density of the soli	id.		
hapes A and B both have the same perimeter. $x ext{ A} ext{ A} ext{ 4cm} ext{ 5cm} ext{ 7cm} ext{ Not drawn accurately} ext{ 7cm} ext{ accurately} ext{ accurately}$	Include the ur	its of your answe	r.		[3 marks]
hapes A and B both have the same perimeter. $x ext{ A} ext{ A} ext{ 4cm} ext{ 5cm} ext{ 7cm} ext{ Not drawn accurately} ext{ 7cm} ext{ accurately} ext{ accurately}$					
hapes A and B both have the same perimeter. $x ext{ A} ext{ A} ext{ 4cm} ext{ 5cm} ext{ 7cm} ext{ Not drawn accurately} ext{ 7cm} ext{ accurately} ext{ accurately}$					
hapes A and B both have the same perimeter. $x ext{ A} ext{ A} ext{ 4cm} ext{ 5cm} ext{ 7cm} ext{ Not drawn accurately} ext{ 7cm} ext{ accurately} ext{ accurately}$					
hapes A and B both have the same perimeter. $x ext{ A} ext{ A} ext{ 4cm} ext{ 5cm} ext{ 7cm} ext{ Not drawn accurately} ext{ 7cm} ext{ accurately} ext{ accurately}$					
hapes A and B both have the same perimeter. $x ext{ A} ext{ A} ext{ 4cm} ext{ 5cm} ext{ 7cm} ext{ Not drawn accurately} ext{ 7cm} ext{ accurately} ext{ accurately}$					
$\begin{array}{c c} 8cm & 5cm & Not drawn \\ x & A & 4cm & B \\ 4cm & B \\ 4cm & 5cm \end{array}$ 7cm Not drawn accurately		Answer			
$\begin{array}{c c} 8cm & 5cm & Not drawn \\ x & A & 4cm & B \\ 4cm & B \\ 4cm & 5cm \end{array}$ 7cm Not drawn accurately					
x A 4 4 a 3 7 m a					
x A B 7cm 4cm 5 cm 7 cm alculate the value of x	Shapes A and	B both have the	same perimeter.		
alculate the value of x	Shapes A and		_		
		8cm	_	5cm	
		8cm	4cm	5cm B 7cm	
[3 marks]	x	8cm A	4cm	5cm B 7cm	
	x	8cm A	4cm	5cm B 7cm	
	x	8cm A value of <i>x</i>	4cm 4cm	5cm B 7cm 5cm	accurately [3 marks]
	x	8cm A value of <i>x</i>	4cm 4cm	5cm B 7cm 5cm	accurately [3 marks]
	x	8cm A value of <i>x</i>	4cm 4cm	5cm B 7cm 5cm	accurately [3 marks]
	x	8cm A value of <i>x</i>	4cm 4cm	5cm B 7cm 5cm	accurately [3 marks]







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Video Solutions

19 Megan is paying her phone bill.

Information about the charges is shown below.

£10 per month + 10p per text message Calls at 2p per minute

The table below shows Megan's usage for the last three months.

	February	March	April
Text messages	6	10	8
Call minutes	40	35	15

Calculate the cost of Megan's total bill for the three months.

[4 marks]

Answer		



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Do not write outside the box



	1	5
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 (a) An electrician charges a call out fee of £20 plus £12 per hour worked. Write a formula for the total cost (<i>C</i>) of an electrics job that lasts for (<i>h</i>) hours. [2 marks]
Answer
(b) A plumber charges twice the call out fee but half the hourly rate of the electrician.
Write a formula for the total cost (<i>C</i>) of a plumbing job that lasts for (<i>h</i>) hours. [1 mark
Answer
Turn over



1	6

	10		
21 (a)	Work out $\left(\frac{2}{3}\right)^2 + \frac{1}{4}$	[3 marks]	Do not wri outside th box
	Answer		
21 (b)	Write $2^{20} \div (2^3)^4$ as a single power of 2.	[2 marks]	
	Answer		
21 (c)	Write 0.0042 in standard form.	[1 mark]	
	Answer		
21 (d)	Work out $(4 \times 10^3) \times (3 \times 10^5)$ giving your answer in standard form.	[2 marks]	
	Answer		





17	

Solve $\frac{x}{4} + 9 = 3$	[2 marks]
<i>x</i> =	
The cost of a calculator is £3.60	
The cost of a pen is 80p	
Write the cost of a calculator to the cost of a pen.	[2 marks]
Give your answer in simplest form.	
Answer:	
Answei	



24 ABCDEF is a regular hexagon.

Using only ruler and compasses, show the region inside the hexagon that is

less than 6 cm from E

and

closer to point C than point D

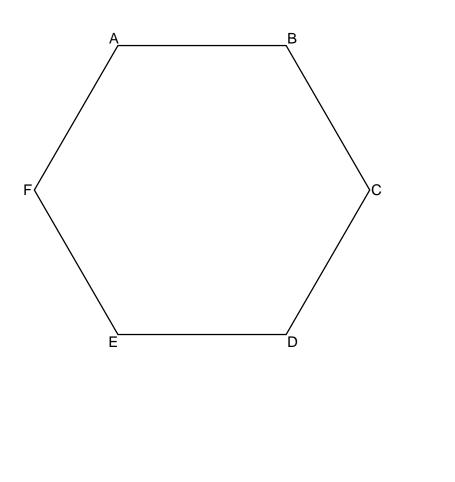
Label the region R.

Show all your construction lines.

[3 marks]

Do not write outside the

box



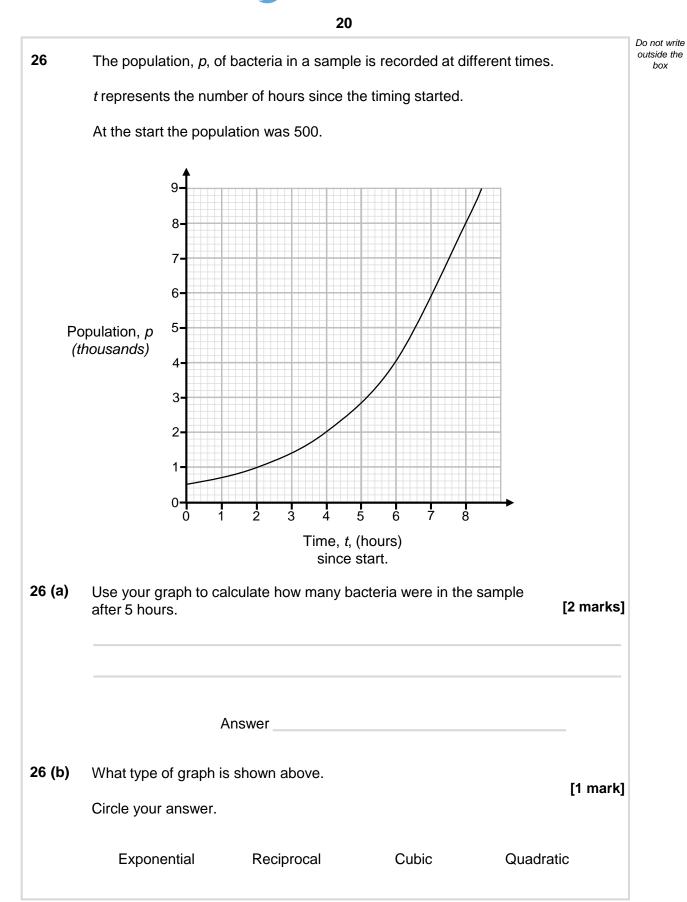




-	The diagram shows a sector of a circle of radius 6cm.	Do not write outside the box
	6 cm Accurately	
(Calculate the area of the sector.	
(Give your answer in terms of π . [3 marks]	
ŗ		
	Answer	
		6
	Turn over ►	









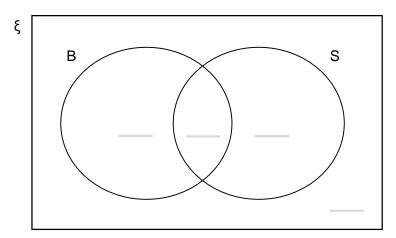
27 The Venn Diagram below show information about 200 students.

Each of the students was asked if they have any brothers or sisters.

 $\frac{3}{8}$ of the students had brothers and sisters.

In total 105 students had sisters.

The number of students with brothers was 15 less than the number who had sisters.



Complete the Venn Diagram.

[4 marks]

END OF QUESTIONS



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