Write your name here			
Surname		Other name	15
Pearson Edexcel International Lower Secondary Curriculum	Centre Number		Candidate Number
Mathemat Year 9 Achievement Test	tics		
Thursday 1 June 2017 – After Time 1 hour 20 minutes	ernoon		Paper Reference
You must have: Ruler graduated in centimetres and	d millimetres, prot	tractor, com	Total Marks

Instructions

- Use black ink or ball-point pen.
- Fill in the boxes at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided there may be more space than you need.
- Calculators are allowed.

Information

- The total mark for this paper is 80.
- The marks for **each** question are shown in brackets
 use this as a guide as to how much time to spend on each question.

Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.



Turn over 🕨



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SECTION A Answer ALL questions. In Section A put a cross in one box \boxtimes to indicate your answer. If you change your mind, put a line through the box \boxtimes and then put a cross in another box \boxtimes . Each question in Section A is worth one mark. Find the median of 37, 53, 41, 48, 37, 59, 26 1 37 41 43 48 \times \times $\boldsymbol{\times}$ X Which decimal is equivalent to $\frac{4}{5}$? 2 0.45 0.8 1.25 4.5 X \times \times X This shape is made from a square and a rectangle. 3 - 7 cm -Diagram NOT 2 cm accurately drawn 3 cm - 3 cm → What is the perimeter of this shape? 15 cm 23 cm 24 cm 30 cm Х \times \mathbf{X} \mathbf{X} Find the value of 3a + 4b when a = 7 and b = 54 19 41 43 82 \mathbf{X} X X X



DO NOT WRITE IN THIS AREA

	16 cm ³	$48\mathrm{cm}^3$	$64\mathrm{cm}^3$	$96\mathrm{cm}^3$		
	\boxtimes					
The area	of a shape is 2	40 cm ² .				
What is the	nis in mm ² ?					
	$2.4\mathrm{mm}^2$	$24\mathrm{mm^2}$	2400mm^2	24 000 mm	2	
	\boxtimes	\times				
A group c	f men and wo	men took a test.				
This two-	way table show	ws some informatio	n about the test.			
		Passe	d Failed	TOTAL		
	Ν	Men 43		56		
	W	omen				
	TC	DTAL 75		100		
How man	y women faile	ed the test?				
	12	13	25	32		
	\boxtimes	\times	\boxtimes	\boxtimes		
A pie chart is drawn to show the hair colour of 200 pupils in a school.						
40 pupils	have brown ha	air.				
What angle will the sector for brown hair be on the pie chart?						
	20°	36°	40°	72°		
				\boxtimes		

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	t is 280 as a product o	of its prime factors?			
	$1 \times 2 \times 2 \times 2 \times 5 \times 7$	$2 \times 2 \times 2 \times 5 \times 7$	$2 \times 4 \times 5 \times 7$	$2 \times 2 \times 3 \times 5 \times 7$	
			\boxtimes		
0 Wha	t is the midpoint of (4	,-6) and (-2,14) ?			
	(1,4)	(1,10)	(3,4)	(3,10)	
		\boxtimes	\boxtimes		
1 Wha	t name is given to a st	raight line that goes	from the centre to t	he circumference of a circle	e?
	Radius	Tangent	Diameter	Chord	
				\boxtimes	
1 2 Expa	nd and simplify				
		-12(3 <i>m</i> -	(2) - 10 + 2m		
	-38 <i>m</i> - 14	-12 (3 <i>m</i> - -34 <i>m</i> - 14	(2) - 10 + 2m -34m + 14	-38m + 14	
	-38 <i>m</i> - 14	-12(3m - 34m - 14)	2) - 10 + 2m $-34m + 14$	−38 <i>m</i> + 14	
13 Rour	-38m - 14	-12(3m - 14) $2 decimal places.$	2) - 10 + 2m $-34m + 14$	-38 <i>m</i> + 14	
1 3 Rour	-38m - 14 and 0.025701009 to 0.02	-12(3m - 14) $2 decimal places.$ 0.03	$2) - 10 + 2m$ $-34m + 14$ \square 0.025	-38 <i>m</i> + 14	
13 Rour	-38m - 14 and 0.025701009 to 0.02 \square	-12(3m - 14) $2 decimal places.$ 0.03	$2) - 10 + 2m$ $-34m + 14$ \bigcirc 0.025 \bigcirc	-38 <i>m</i> + 14 □ 0.026 □	
13 Rour 14 Find	-38m - 14 and 0.025701009 to 0.02 the value of $(4h + 3)$	-12 (3m - 14) $2 decimal places.$ 0.03 2 $(3m - 14)$ $($	(2) - 10 + 2m -34m + 14 (2) (3)	-38 <i>m</i> + 14 □ 0.026 □	
13 Rour 14 Find	$-38m - 14$ \square and 0.025701009 to 0.02 \square the value of $(4h + 3)$ 22	-12(3m34m - 14) 2 decimal places. 0.03 1 (b) $)^2 \text{ when } h = 2$ 90	2) $-10 + 2m$ -34m + 14 0.025 121	-38 <i>m</i> + 14 0.026 2025	

P 4 8 4 3 8 A 0 4 2 0

	$3^3 + (8 - 1)^3$	3) × 4	
29	47	56	128
\times	\times	\times	\times
The frequency table belo	ow shows the number of m	arks scored on a	test.
	Number of marks	Frequency	
	0 - 19	31	
	20 - 39	14	_
	40 - 59	28	
	60 - 79	27	
What is the modal class	of the number of marks?		
0 – 19	20 - 39	40 - 59	60 - 79
\boxtimes	\boxtimes	\boxtimes	\boxtimes
7 What is 1357000000	in standard form?		
1.357×10^{-9}	1.357×10^{-6} 1	$.357 \times 10^{6}$	1.357×10^{9}
\boxtimes	\boxtimes		\boxtimes
The price of a games co	nsole has been reduced by	20% in a sale.	
The sale price is \$360			
How much did the game	es console cost before it wa	is reduced in the	sale?
\$288	\$300	\$432	\$450

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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		4, 16, 36	, 64, 100,		
Factorise fully $28x^{2} + 16xy + 8x$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(14x + 10x + 1$	Factorise fully $28x^{2} + 16xy + 8x$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8x + 10) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8x + 10) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8x + 10) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8x + 10) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8x + 10) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8x + 10) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8x + 10) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8x + 10) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8x + 10) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8x + 10) 2x(14x + 8y + 10) 2x(14x + 10) 2x(14x + 10)$ $x(14x + 10x + 10$	$(4n)^2$	$n^2 + 4$	Δn^2	12n - 8	
Factorise fully $28x^{2} + 16xy + 8x$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ \square A book is 25 cm long to the nearest centimetre. What is the minimum possible length of the book? $24 \text{ cm} 24.5 \text{ cm} 24.95 \text{ cm} 25 \text{ cm}$ \square Simplify $f^{8} \times f^{4}$	Factorise fully $28x^{2} + 16xy + 8x$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(14x + 2y + 1)$ $x(28x + 16y + 10x + $					
Factorise fully $28x^{2} + 16xy + 8x$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $\square \qquad \square \qquad \square$ A book is 25 cm long to the nearest centimetre. What is the minimum possible length of the book? $24 \text{ cm} \qquad 24.5 \text{ cm} \qquad 24.95 \text{ cm} \qquad 25 \text{ cm}$ $\square \qquad \square \qquad \square$ Simplify $f^{8} \times f^{4}$	Factorise fully $28x^2 + 16xy + 8x$ $x(28x + 16y + 8)$ $2x(14x + 8y + 4)$ $4x(7x + 4y + 2)$ $8x(4x + 2y + 1)$ $x(28x + 16y + 8)$ $2x(14x + 8y + 4)$ $4x(7x + 4y + 2)$ $8x(4x + 2y + 1)$ $x(28x + 16y + 8)$ $2x(14x + 8y + 4)$ $4x(7x + 4y + 2)$ $8x(4x + 2y + 1)$ $x(28x + 16y + 8)$ $2x(14x + 8y + 4)$ $4x(7x + 4y + 2)$ $8x(4x + 2y + 1)$ $x(28x + 16y + 8)$ $2x(14x + 8y + 4)$ $4x(7x + 4y + 2)$ $8x(4x + 2y + 1)$ $x(28x + 16y + 8)$ $2x(14x + 8y + 4)$ $4x(7x + 4y + 2)$ $8x(4x + 2y + 1)$ $x(28x + 16y + 8)$ $2x(14x + 8y + 4)$ $4x(7x + 4y + 2)$ $8x(4x + 2y + 1)$ $x(28x + 16y + 8)$ $2x(14x + 8y + 4)$ $4x(7x + 4y + 2)$ $8x(4x + 2y + 1)$ $x(28x + 16y + 8)$ $2x(14x + 8y + 4)$ $4x(7x + 4y + 2)$ $8x(4x + 2y + 1)$ $x(24x + 16y + 16)$ $24x + 16$ $24 x + 16$ $25 x + 16$ $x(24x + 16)$ $24 x + 16$ $24 x + 16$ $25 x + 16$ $x(24x + 16)$ $x(14x + 16)$ $x(16x + 16)$ $x(16x + 16)$ $x(14x + 16)$					
$28x^{2} + 16xy + 8x$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $\square \qquad \square \qquad \square \qquad \square$ A book is 25 cm long to the nearest centimetre. What is the minimum possible length of the book? $24 \text{ cm} \qquad 24.5 \text{ cm} \qquad 24.95 \text{ cm} \qquad 25 \text{ cm}$ $\square \qquad \square \qquad \square \qquad \square$ Simplify $f^{8} \times f^{4}$	$28x^{2} + 16xy + 8x$ $x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) 8x(4x + 2y + 1)$ $(28x + 16y + 8) 2x(14x + 8y + 4) 1x(14x + 8y + 4) 1x(14x + 8y + 4)$ $(28x + 16y + 10x + 1$	0 Factorise fully				
x(28x+16y+8) 2x(14x+8y+4) 4x(7x+4y+2) 8x(4x+2y+1) $a a a a a a a a a a$	$x(28x + 16y + 8) 2x(14x + 8y + 4) 4x(7x + 4y + 2) \qquad 8x(4x + 2y + 1)$ \square A book is 25 cm long to the nearest centimetre. What is the minimum possible length of the book? $24 \text{ cm} \qquad 24.5 \text{ cm} \qquad 24.95 \text{ cm} \qquad 25 \text{ cm}$ \square Simplify $f^8 \times f^4$ $f^2 \qquad f^4 \qquad f^{12} \qquad f^{32}$ \square \square		$28x^2 +$	16xy + 8x		
A book is 25 cm long to the nearest centimetre.What is the minimum possible length of the book? 24 cm 24.5 cm 24 cm 24.5 cm 1 cm	Image:	x(28x+16y+8)	2x(14x+8y+4)	4x(7x+4y+2)	8x(4x+2y+1)	
A book is 25 cm long to the nearest centimetre. What is the minimum possible length of the book? $24 \text{ cm} \qquad 24.5 \text{ cm} \qquad 24.95 \text{ cm} \qquad 25 \text{ cm}$ $\boxed{} \qquad \boxed{} \qquad \boxed{} \qquad \boxed{} \qquad \boxed{}$ Simplify $f^8 \times f^4$	A book is 25 cm long to the nearest centimetre. What is the minimum possible length of the book? 24 cm 24.5 cm 24.95 cm 25 cm 24 cm 24.5 cm 24.95 cm 25 cm f^{4} f^{4} f^{12} f^{32} f^{2} f^{4} f^{12} f^{32} f^{2} f^{4} f^{12} f^{32}		\boxtimes	\times		
Simplify $f^8 \times f^4$	Simplify $f^8 \times f^4$ f^2 f^4 f^{12} f^{32} \square \square \square \square	24 cm	24.5 cm	24.95 cm	25 cm	
$f^8 imes f^4$	$\begin{array}{cccc} & f^8 \times f^4 & & \\ f^2 & f^4 & f^{12} & f^{32} & \\ \hline & & \hline & & \hline & & \\ \hline \end{array} & & \hline & & \hline \end{array} \end{array}$	2 Simplify				
	f^2 f^4 f^{12} f^{32}		f	$^{8} \times f^{4}$		
$f^2 \qquad f^4 \qquad f^{12} \qquad f^{32}$		f^2	f^4	f^{12}	f^{32}	
		\times	\times	\times	\times	

The probability that the counter is red is $\frac{1}{5}$						
The probability that the counter is blue is $\frac{7}{10}$						
The rest of the counters	are green.					
What is the probability	that the counter is gr	een?				
1	7	8	9			
10	15	15	10			
	\times	\times	\times			
4 What is the length of th	e unknown side in th	is triangle to one dec	imal place?			
	↑ 5 cm	13 cm	Diagram accurately	NOT y draw		
	↓					
6.0 cm	8.0 cm	12.0 cm	13.9 cm			
	\boxtimes	\boxtimes				
5 Round 7.1579012 to	o 3 significant figure	s.				
7.15	7.16	7.157	7.158			
	\boxtimes					
26 A regular polygon has exterior angles of 60°						
What is the sum of the polygon's interior angles?						
180°	360°	540°	720°			

		$y^2 - 49$		
<i>y</i> (<i>y</i> – 7)	<i>y</i> (<i>y</i> – 49)	(y-7)(y-7)	(y-7)(y+7)	
\boxtimes				
The area of a shape is 2	4 cm ² .			
The shape is then enlarg	ed by a scale factor o	f 3		
What is the area of the e	enlarged shape?			
$72\mathrm{cm}^2$	$142\mathrm{cm}^2$	$216\mathrm{cm}^2$	$648\mathrm{cm}^2$	
\boxtimes	\times	\times	\boxtimes	
$\frac{2}{6}$	$\frac{4}{6}$	$\frac{1}{36}$	$\frac{4}{36}$	
Find the value of $64^{-\frac{2}{3}}$				
$\frac{1}{16}$	-16	$\frac{1}{512}$	-512	
	\boxtimes	\boxtimes		
		TOTAL FOR SEC	TION A IS 30 MARKS	







33	(a)) A triangle has one angle of 45° and another angle of 65°	
		What is the size of the third angle in this triangle?	
		what is the size of the time angle in this triangle.	
			(2)
	(b)) A pentagon has two right angles and two angles of 110°	
		What is the size of the fifth angle in this pentagon?	
		what is the size of the fifth angle in this pentagon?	
			(2)
			(2)
		(Total for Question 33 is 4	(2) marks)
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 P
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10

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DO NOT WRITE IN THIS AREA





How much does Renee get?		
		\$
	(Total for Question 36	6 is 2 marks)
(a) What is 12 out of 40 as a percentage?		
(a) what is 12 out of 40 as a percentage.		
		0/_
		(1)
(b) Decrease 60 kg by 15%.		
		kg
(c) Convert the recurring decimal 0.14141414141	into a fraction.	(*)
Show all of your working.		
		(2)
	(Total for Question 37	7 is 4 marks)



Ρ 4

P 4 8 4 3 8 A 0 1 4 2 0

P 4 8 4 3 8 A 0 1 6 2 0

42 Draw the straight line graph with gradient of 2 and intercept at -1 on the *y*-axis.

(Total for Question 42 is 2 marks)

Turn over 🕨

43 Work out an estimate of the mean height from this grouped frequency table.

Height (cm)	Frequency
$100 \leqslant h < 120$	4
$120 \leqslant h < 140$	9
$140 \leqslant h < 160$	11
$160 \leqslant h < 180$	6

..... cm

(Total for Question 43 is 3 marks)

(Total for Question 44 is 5 marks)

 $(3.1 \times 10^5) \times (4.2 \times 10^2)$

orm.

44 (a) Write $\frac{g^7 \times g^3}{g^6}$ as a single power of g

(1)

(2)

(2)

