

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in. Write in dark blue or black pen.

You may use a pencil for any diagrams or graphs.

Do not use staples, paper clips, highlighters, glue or correction fluid.

DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.

If working is needed for any question it must be shown below that question.

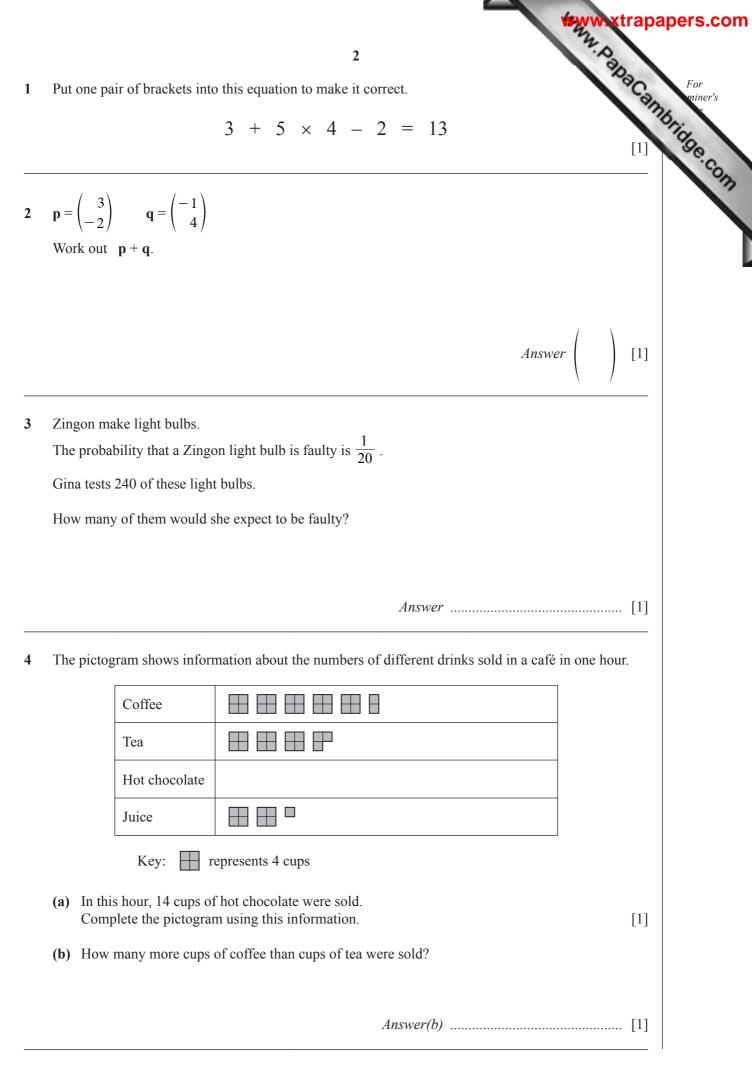
Electronic calculators should be used.

If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place. For π , use either your calculator value or 3.142.

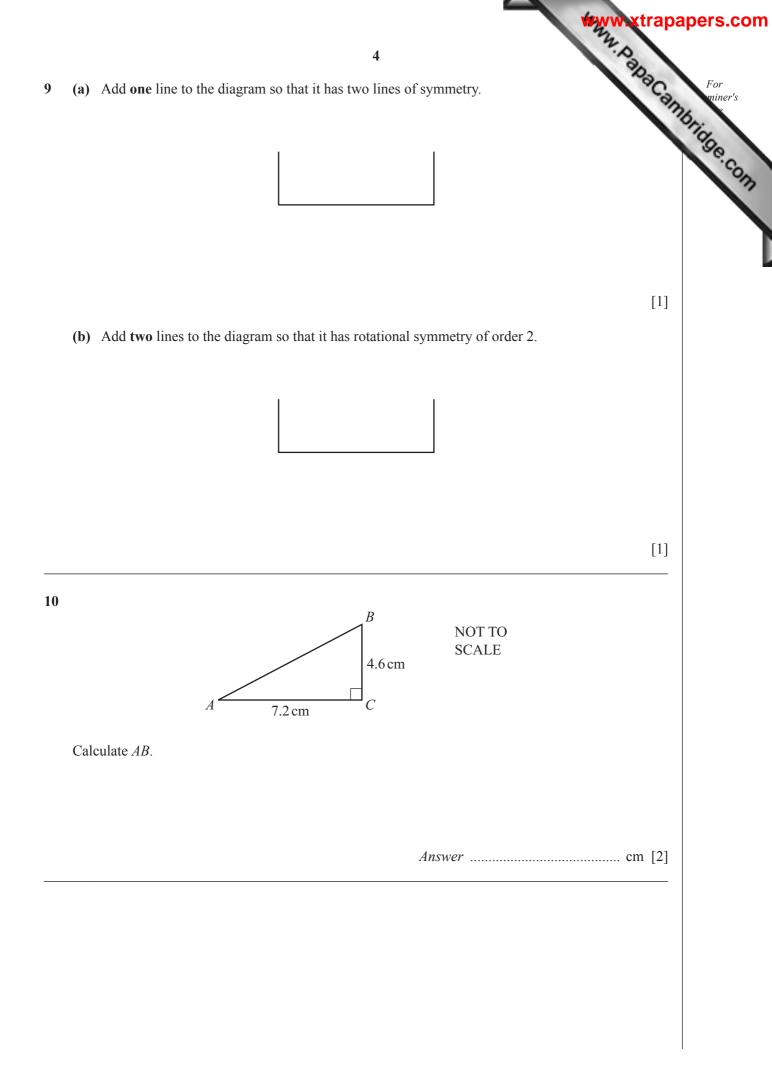
At the end of the examination, fasten all your work securely together. The number of marks is given in brackets [] at the end of each question or part question. The total of the marks for this paper is 56.

This document consists of **11** printed pages and **1** blank page.





			a :			3					aba
Write the follo	wing in	order o	of size, s	smallest	t first.						Cal
	1	9%	$\frac{1}{5}$	$\sqrt{0.0}$	038	sin 1	1.4°	0.719	5	HERVIN. L	
Answer		<		<			<		<		
Use a calculat	or to wo	ork out t	the follo	wing.							
(a) 3 (-4 ×	$6^2 - 5)$)									
						Ans	swer(a)				[1]
(b) $\sqrt{3} \times \tan \theta$	30° +	$\sqrt{2} \times s$	sin 45°								
						Ans	swer(b)				[1]
Find the circu	mferenc	e of a c	ircle of	radius 2	2.5 cm.						
Find the circur	mferenc	e of a c	ircle of	radius 2	2.5 cm.						
Find the circur	mferenc	e of a c	ircle of	radius 2	2.5 cm.						
Find the circur	mferenc	e of a c	ircle of	radius 2	2.5 cm.		4nswer				cm [2]
Bruce plays a	game of	f golf.					4nswer				cm [2]
	game of	f golf. `the 18					4nswer				cm [2]
Bruce plays a	game of	f golf. The 18	holes ar 4	e showr 5	n belov 4	v. 6	2	3	4		cm [2]
Bruce plays a	game of	f golf. `the 18	holes ar	e showr 5	n belov 4	v. 6		3			cm [2]
Bruce plays a	game of each of 2 4	f golf. The 18 3 5	holes ar 4 3	e shown 5 4	n below 4 3	v. 6	2	3	4		em [2]
Bruce plays a His scores for	game of each of 2 4 on is to	f golf. The 18 3 5 be show	holes ar 4 3 vn in a p	e shown 5 4 bie chart	n below 4 3	v. 6	2	3	4		cm [2]
Bruce plays a His scores for The informatio	game of each of 2 4 on is to	f golf. The 18 3 5 be show	holes ar 4 3 vn in a p	e shown 5 4 bie chart	n below 4 3	v. 6	2	3	4		cm [2]



- 5
- The table shows how the dollar to euro conversion rate changed during one day. 11

				5			WWW Xt	rapapers.c
ie table sł	nows how the	e dollar to eu	uro conversi	on rate chan	ged during o	one day.	902	For
Time	1000	11 00	1200	13 00	1400	1500	1600	annbridge.c
\$1	€1.3311	€1.3362	€1.3207	€1.3199	€1.3200	€1.3352	€1.3401	Se.C
nalil chan	ged \$500 int	o euros (€).		1	1	1		

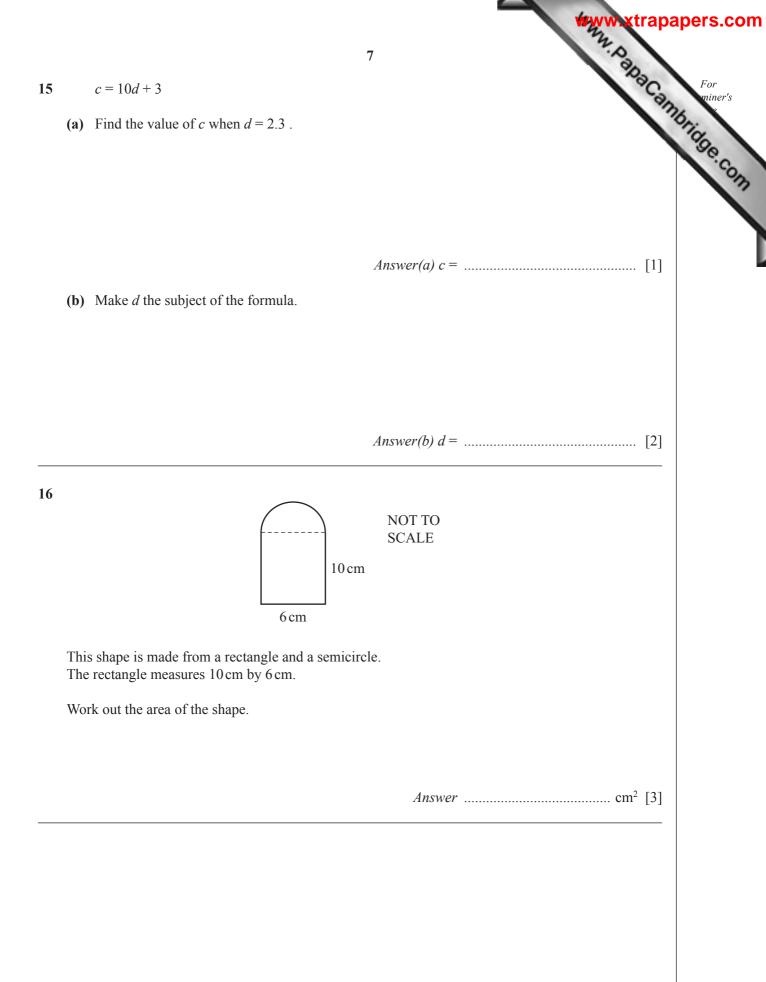
How many more euros did Khalil receive if he changed his money at the highest rate compared to the lowest rate?

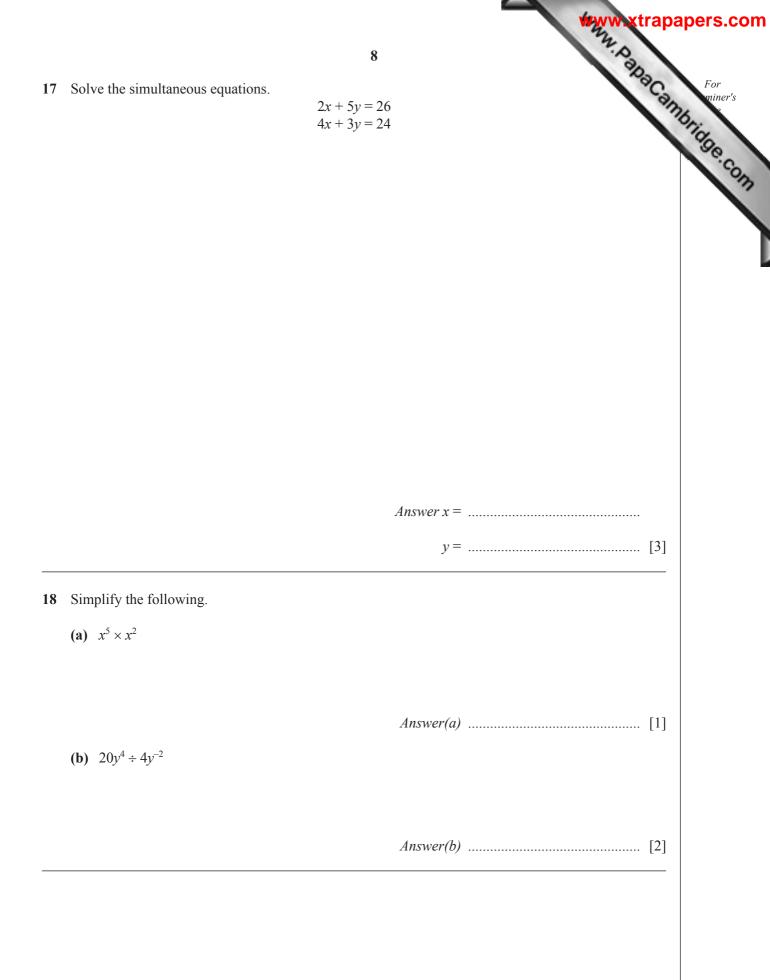
- 12 Pam wins the student of the year award in New Zealand. She sends three photographs of the award ceremony by post to her relatives.
 - one of size 13 cm by 23 cm to her uncle in Australia •
 - one of size 15 cm by 23 cm to her sister in China •
 - one of size 23 cm by 35 cm to her mother in the UK

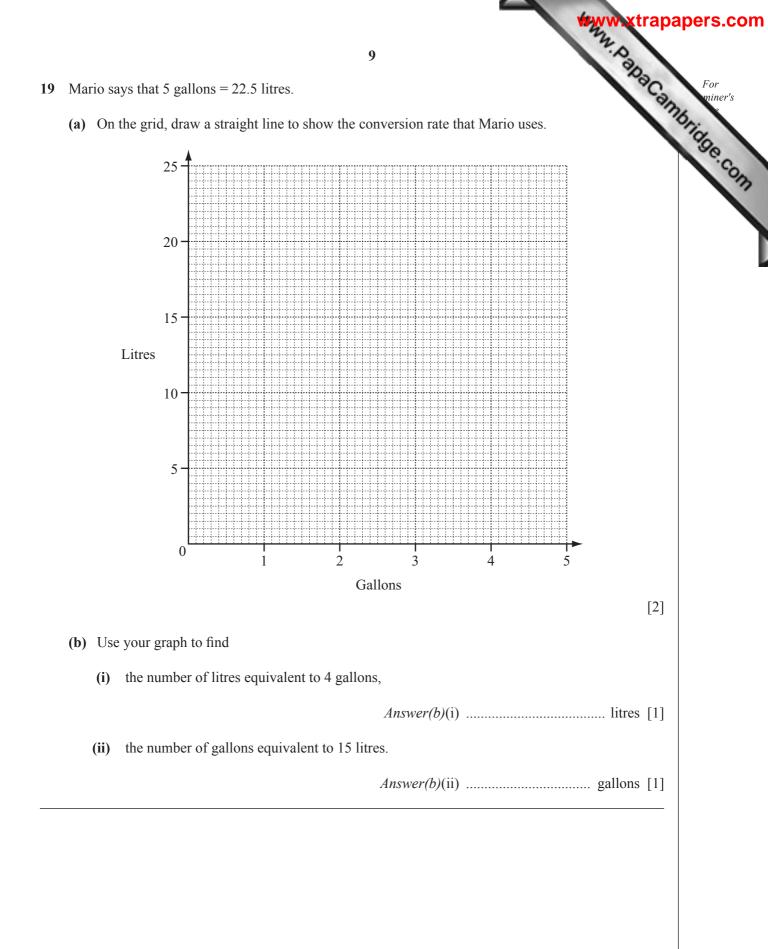
Maximum lengths	Australia	Rest of the world
13 cm by 23.5 cm	\$1.90	\$2.50
15.5 cm by 23.5 cm	\$2.40	\$2.90
23 cm by 32.5 cm	\$2.80	\$3.40
26 cm by 38.5 cm	\$3.60	\$5.20

The cost of postage is shown in the table above. Use this information to calculate the total cost.

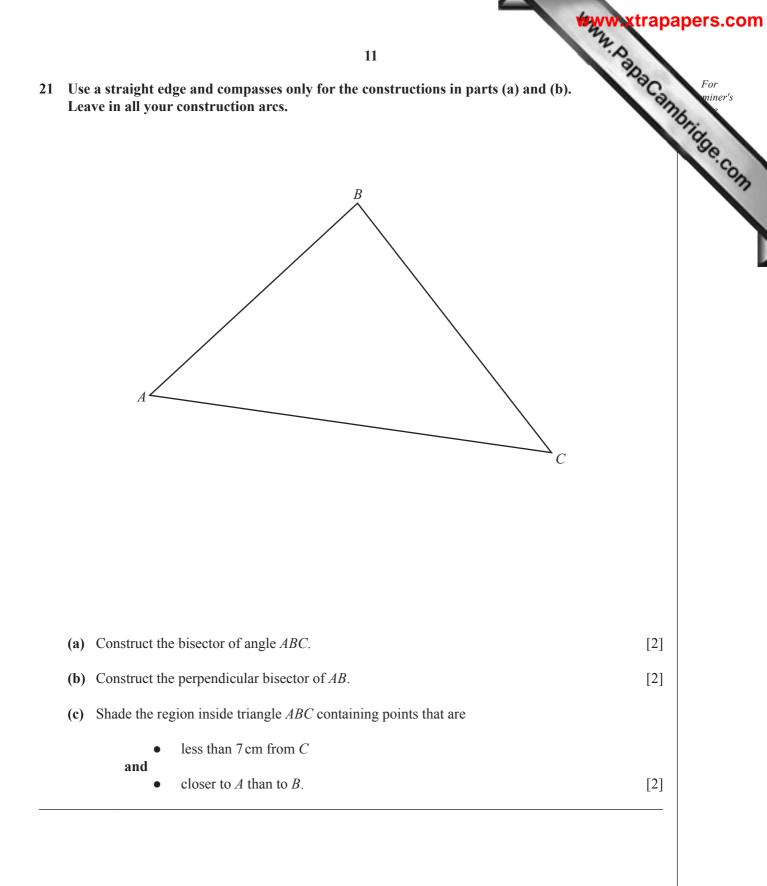
			www.xtrapapers.com
13	(a)	6 Complete the following statement.	For miner's [1]
		The two common factors of 15 and 20 are 1 and	[1] Tidde Com
	(b)) Write down the next square number that is greater than 169.	
	(c)	Answer(b)	[1]
		Answer(c)	[1]
14	The	the straight line, L, has the equation $y = 5 - 2x$.	
	Wri	rite down	
	(a)	the co-ordinates of the point where the line crosses the <i>y</i> -axis,	
		Answer(a) (,) [1]
	(b)) the gradient of the line,	
		Answer(b)	
	(c)	the equation of a line parallel to <i>L</i> . Give your answer in the form $y = mx + c$.	
		$Answer(c) y = \dots$	[1]







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)	Com	plete	the ne	et of the	e cuboi	d.									[[2]
)					of the cu f your a											
					-											
							<i>Answer(b)</i>									





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