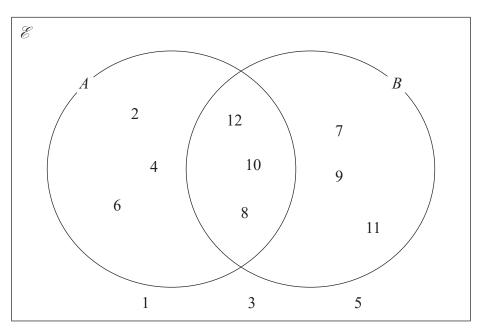
10	16	22	28	34	
(a) Find an expression, in terms of <i>n</i>	<i>n</i> , for the	e <i>n</i> th tern	n of this s	sequence.	
					(2)
The <i>n</i> th term of a sequence T is give	en by n^2	- 3			
There are numbers that are terms in	both the	e sequenc	e S and t	he sequence T.	
(b) Find one of these numbers.					
					(2)
			(Tota	al for Question 1'	7 is 4 marks)
On Saturday, Jacob walked 10800 s On Sunday, he walked 7% more step		on Sature	lay.		
Work out how many steps Jacob wa	lked on	Sunday.			
			(Tota	al for Question 18	8 is 3 marks)





(a) List the numbers that are in set A

(b) List the numbers that are in set $A \cap B$

(c) List the numbers that are in set $(A \cup B)'$

One of the numbers in the Venn diagram is chosen at random.

(d) Find the probability that this number is in set $A \cup B$

(2)

(1)

(1)

(1)

(Total for Question 19 is 5 marks)



Turn over 🕨

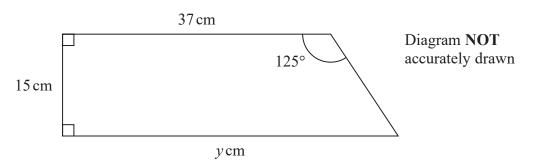
DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

20	The length of a line is 12.3 cm, correct to 1 decimal place.	
	(a) Write down the upper bound of the length of the line.	
	(1)	cm
	(b) Write down the lower bound of the length of the line.	
	(1)	cm
	(1)	
	(Total for Question 20 is 2 marks)	
21	Omar invests 6000 dirham for 4 years in a savings account. He will get 1.5% per year compound interest.	
	Work out the total amount of interest Omar will have received by the end of 4 years. Give your answer correct to the nearest dirham.	
		dirham
	(Total for Question 21 is 3 marks)	J

P 5 9 0 2 3 A 0 2 0 2 4



Work out the value of *y*.

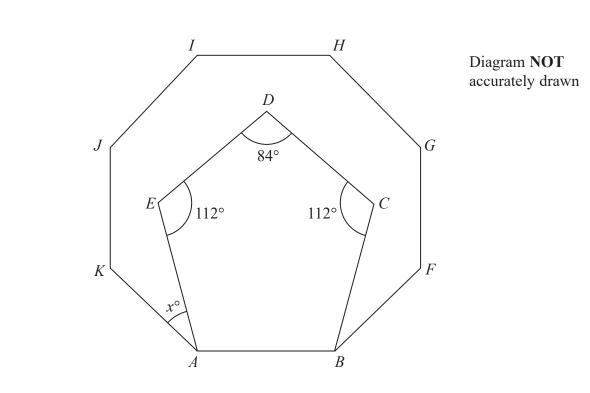
Give your answer correct to 1 decimal place.

y =

(Total for Question 22 is 4 marks)



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Pentagon *ABCDE* is drawn inside the regular octagon *ABFGHIJK*. The pentagon has exactly one line of symmetry.

Work out the value of *x*.

23

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DO NOT WRITE IN THIS AREA

(Total for Question 23 is 4 marks)

x =



24 Carlos, Flavia and Tazia shared £861 between themselves.

The amount of money Flavia got is 65% of the amount of money Carlos got. The amount of money Tazia got is 22% **more** than the amount of money Carlos got.

Work out how much money Carlos got.

£

(Total for Question 24 is 3 marks)



