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9 In November, Andre received a monthly salary of 2500 euros.

Of this he spent

40% on his rent

300 euros on leisure

The rest of Andre's monthly salary was spent on household bills and on food where

the amount spent on household bills : the amount spent on food = 3 : 7

Work out how much of his November monthly salary Andre spent on food.

..... euros

(Total for Question 9 is 4 marks)

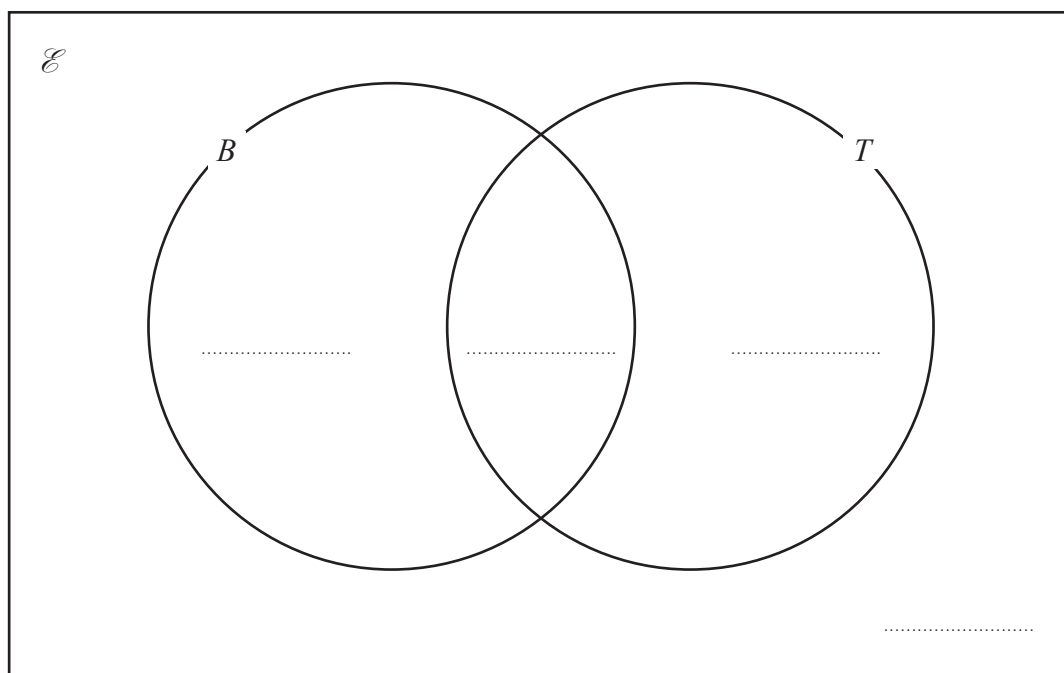


10 50 students have lessons at a dance school.
Two of the lessons are ballet lessons (B) and tap lessons (T).

Of the 50 students

- 31 have ballet lessons
- 27 have tap lessons
- 18 have ballet lessons and tap lessons

Complete the Venn diagram for this information.



(Total for Question 10 is 3 marks)



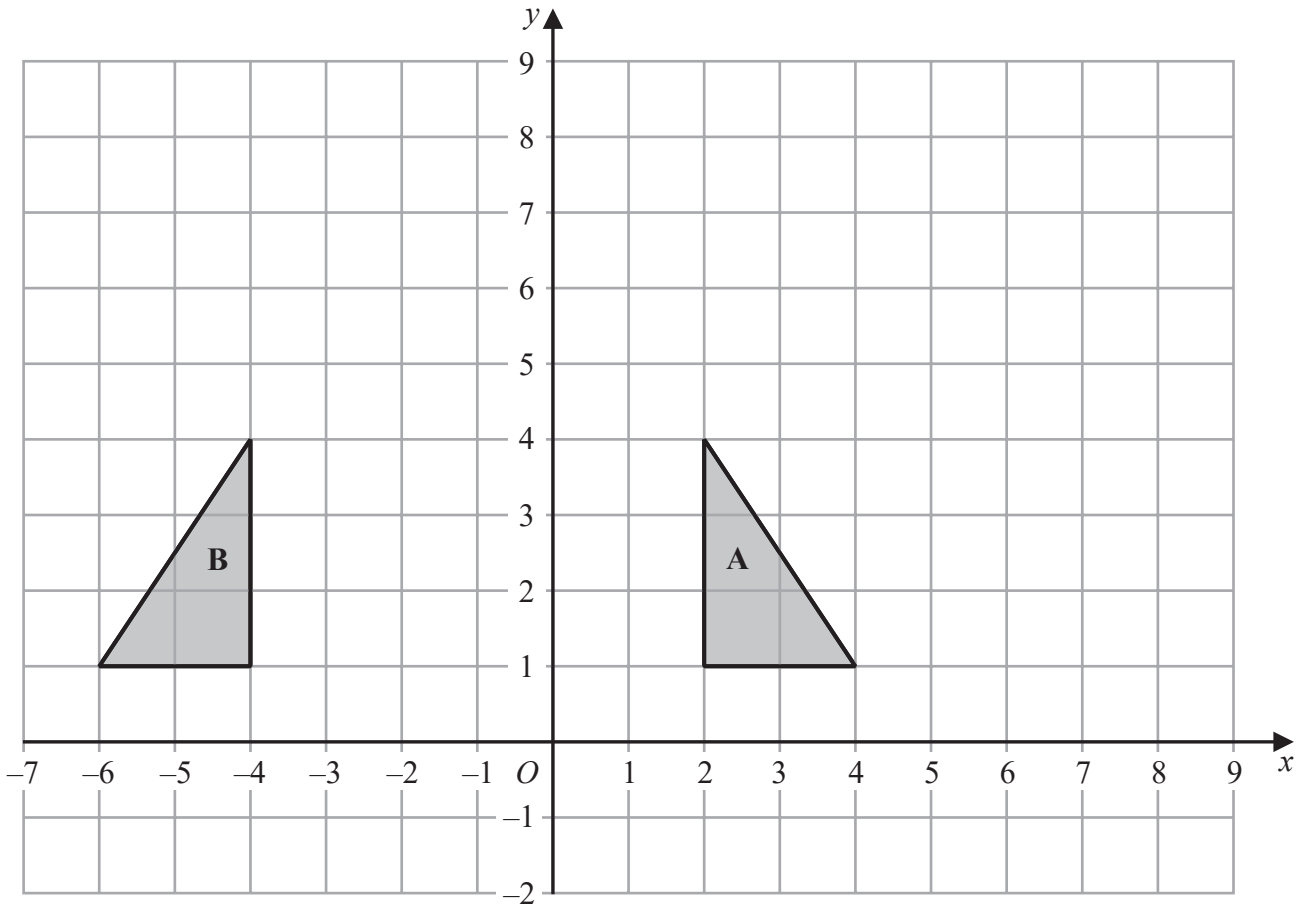
- 11 The table shows information about the number of eggs laid by each of 36 hens in one week.

Number of eggs	Frequency
0	5
1	5
2	3
3	10
4	7
5	6

Work out the mean number of eggs laid.

.....
(Total for Question 11 is 3 marks)





(a) Describe fully the single transformation that maps triangle A onto triangle B

(2)

(b) On the grid above, enlarge triangle A with scale factor 2 and centre O
Label your triangle C

(2)

(Total for Question 12 is 4 marks)



13 (a) Factorise $6x - 15$

.....
(1)

There are 200 bolts in each box of bolts.

Samira buys c boxes of bolts.

Samira uses the bolts she bought to fill packets of bolts.

There are 50 bolts in each packet of bolts.

Samira sells d packets of bolts.

The total number of bolts Samira has left is T

(b) Write down a formula for T in terms of c and d

.....
(3)

(Total for Question 13 is 4 marks)

14 Work out the value of $\sqrt{7.4} + \frac{5.1^2}{3}$

Write down all the figures on your calculator display.

.....
(Total for Question 14 is 2 marks)

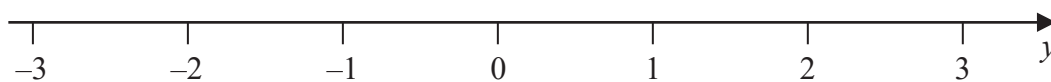


15 n is an integer.

(a) Write down all the values of n such that $-2 \leq n < 3$

.....
(2)

(b) On the number line, represent the inequality $y \leq 1$



(1)

(Total for Question 15 is 3 marks)

16 Each time John plays a game, the probability that he wins the game is 0.65

John is going to play the game 300 times.

Work out an estimate for the number of games that John wins.

.....
(Total for Question 16 is 2 marks)



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17 The shaded shape is made using three identical right-angled triangles and a square.

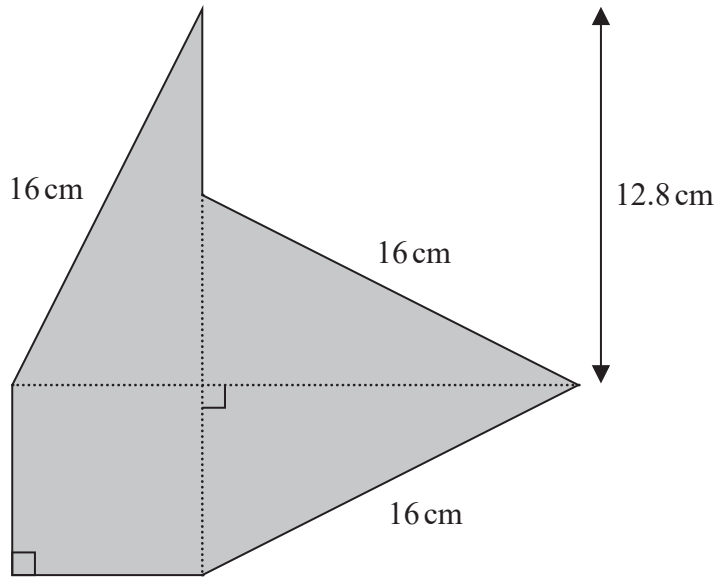


Diagram **NOT** accurately drawn

Work out the perimeter of the shaded shape.

..... cm

(Total for Question 17 is 4 marks)

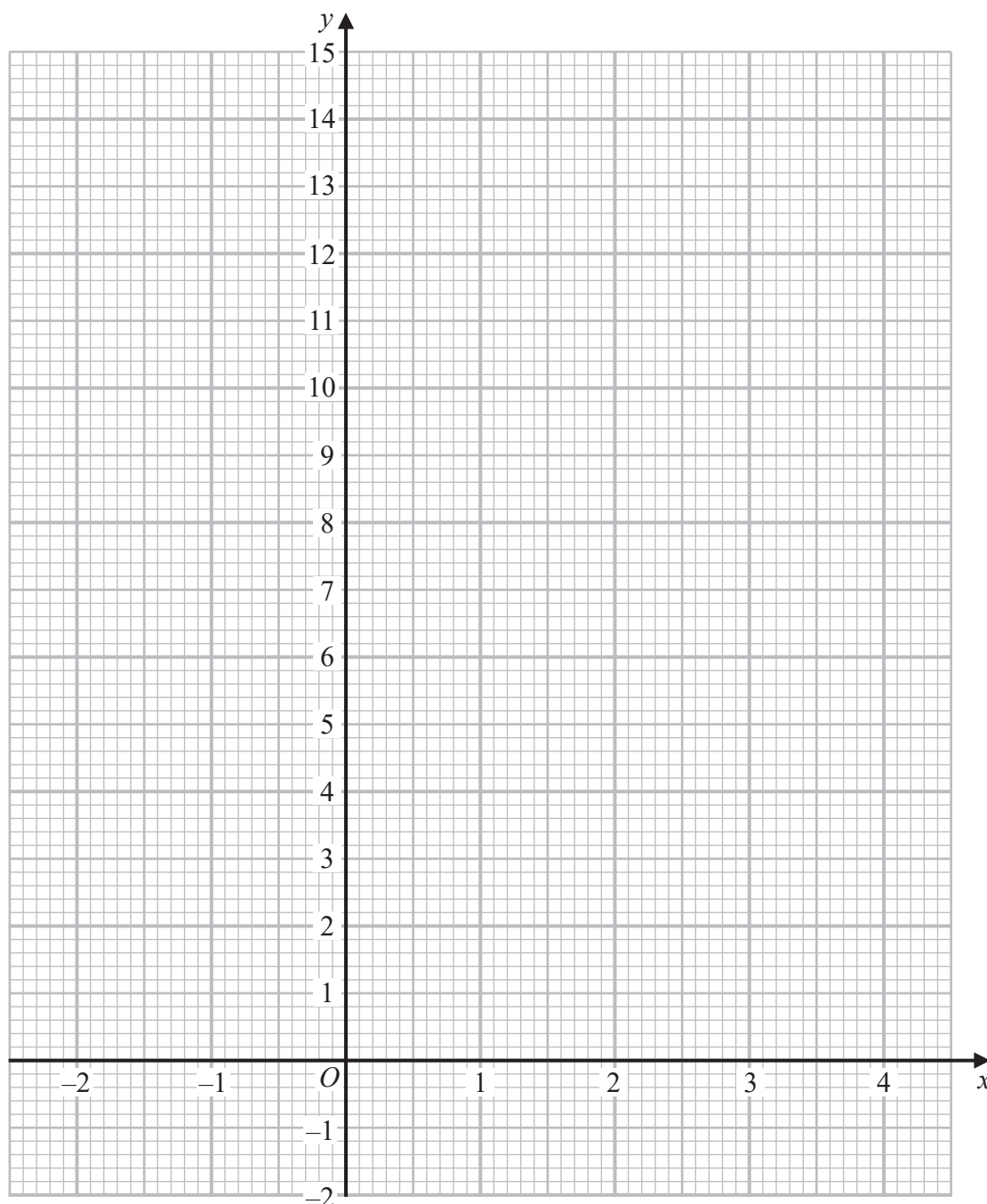


18 (a) Complete the table of values for $y = x^2 - 4x + 3$

x	-2	-1	0	1	2	3	4
y		8	3			0	

(2)

(b) On the grid, draw the graph of $y = x^2 - 4x + 3$ for values of x from -2 to 4



(2)

(Total for Question 18 is 4 marks)

