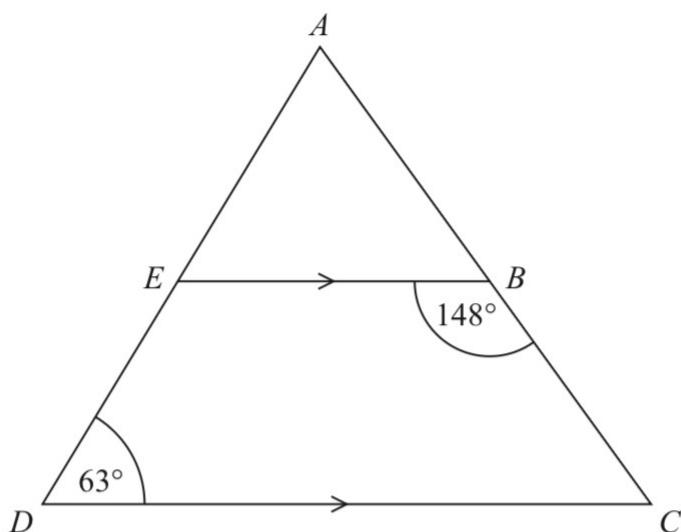


Question 1 (5 Marks)

ADC is a triangle.



AED and ABC are straight lines.

EB is parallel to DC .

Angle $EBC = 148^\circ$

Angle $ADC = 63^\circ$

Work out the size of angle EAB .

You must give a reason for each stage of your working.

Question 2 (3 Marks)

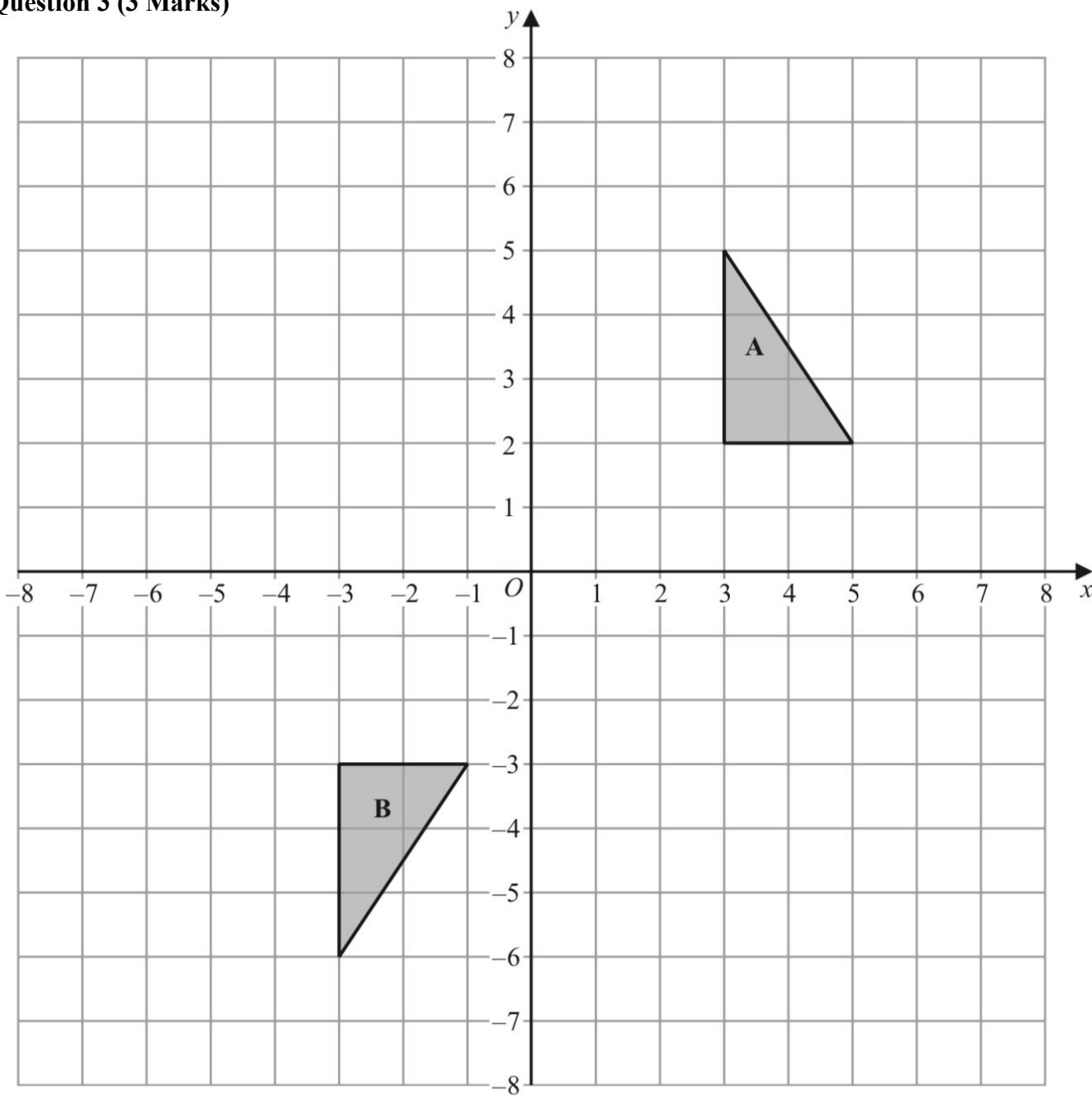
The table shows the amount of snow, in cm, that fell each day for 30 days.

Amount of snow (s cm)	Frequency
$0 \leq s < 10$	8
$10 \leq s < 20$	10
$20 \leq s < 30$	7
$30 \leq s < 40$	2
$40 \leq s < 50$	3

Work out an estimate for the mean amount of snow per day.

..... cm

Question 3 (3 Marks)



Shape A can be transformed to shape B by a reflection in the x -axis followed by a translation $\begin{pmatrix} c \\ d \end{pmatrix}$

Find the value of c and the value of d .

$$c = \dots$$

$$d = \dots$$

Question 4 (4 Marks)

3 teas and 2 coffees have a total cost of £7.80

5 teas and 4 coffees have a total cost of £14.20

Work out the cost of one tea and the cost of one coffee.

tea £.....

coffee £.....