1 Fifty students take part in a quiz. The table shows the results.

Number of correct answers	5	6	7	8	9	10	11	12
Number of students	4	7	8	7	10	6	5	3

How many students had 6 correct answers? (a)

How many students had less than 11 correct answers?

Find (c)

(i) the modal number of correct answers,

$$Answer(c)(i)....9$$
 [1]

(ii) the median number of correct answers,

Median =
$$\frac{\text{student 25}}{2}$$
 + student 26 = $\frac{8+8}{2}$ = 8

Answer(c)(ii)....
$$\delta$$
 [2]

(iii) the mean number of correct answers.

$$\frac{7}{x} = \frac{5 \times 4 + 6 \times 7 + 7 \times 8 + 8 \times 7 + 9 \times 10 + 10 \times 6 + 11 \times 5 + 12 \times 3}{50}$$

$$= \frac{415}{50}$$

$$= 8.3$$

A bar chart is drawn to show the results. (d)

> The height of the bar for the number of students who had 5 correct answers is 2 cm. What is the height of the bar for the number of students who had 9 correct answers?

$$\frac{4}{10} = \frac{2}{x}$$

$$4x = 20$$

$$x = \frac{20}{4}$$

$$x = 5$$

$$x = 5$$