1.

   The mean mass of four men in a rowing team is 100 kg.
   The modal mass is 101 kg.
   The range of the masses is 8 kg.

   Find the mass of each of the four men.

   .... kg , ... kg , ... kg, ... kg [3]

2.

   A spinner can land on the colors green, black or red.
   The table shows the probabilities of the spinner landing on green or black.

Color	Green	Black	Red
Probability	0.4	0.25	

   (a) Complete the table.   [2]

   (b) Chang spins the spinner 120 times.

   Find the expected number of times it lands on green.

   .... [1]

3. Nov/2022/Paper_43/No.6

Regan is playing a game with these six number cards.

| -3 | -2 | 2 | 3 | 5 | 7 |

(a) She takes two cards at random, without replacement, and **multiplies** the two numbers to give a score.

Find the probability that

(i) the score is 35

.... [3]

(ii) the score is a positive number.

.... [3]
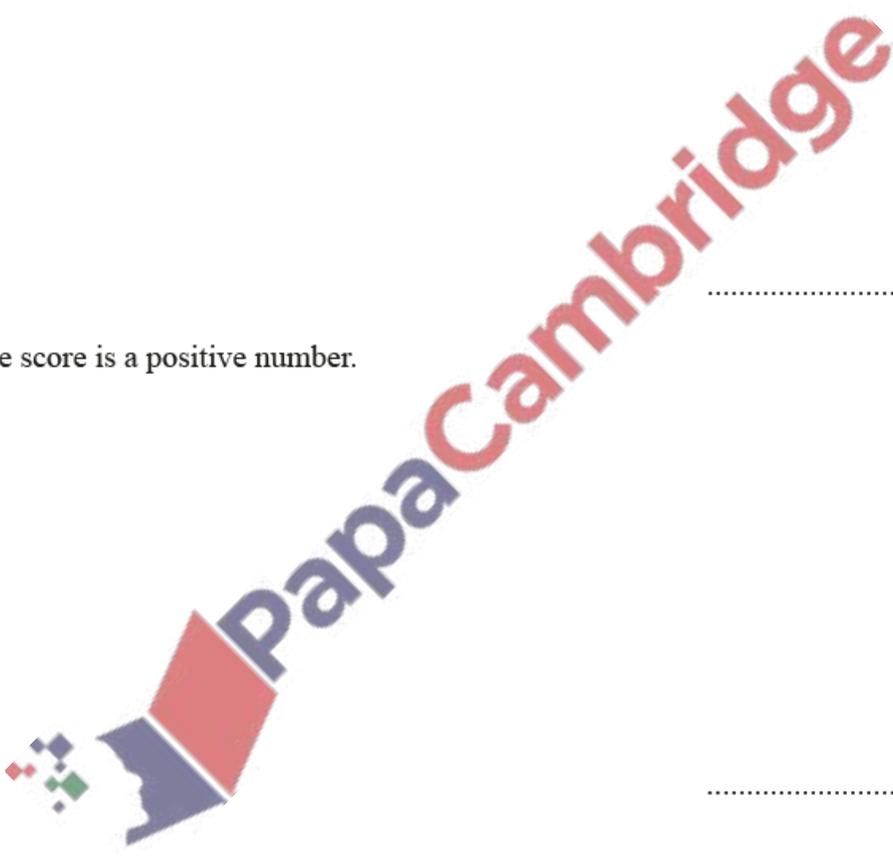
(b) Regan now takes three cards at random from the six cards, without replacement, and **adds** the three numbers to give a total.

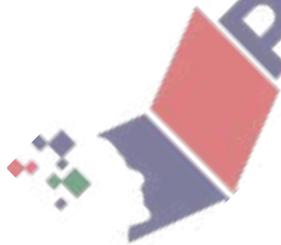Find the probability that her total is 5.

.... [4]

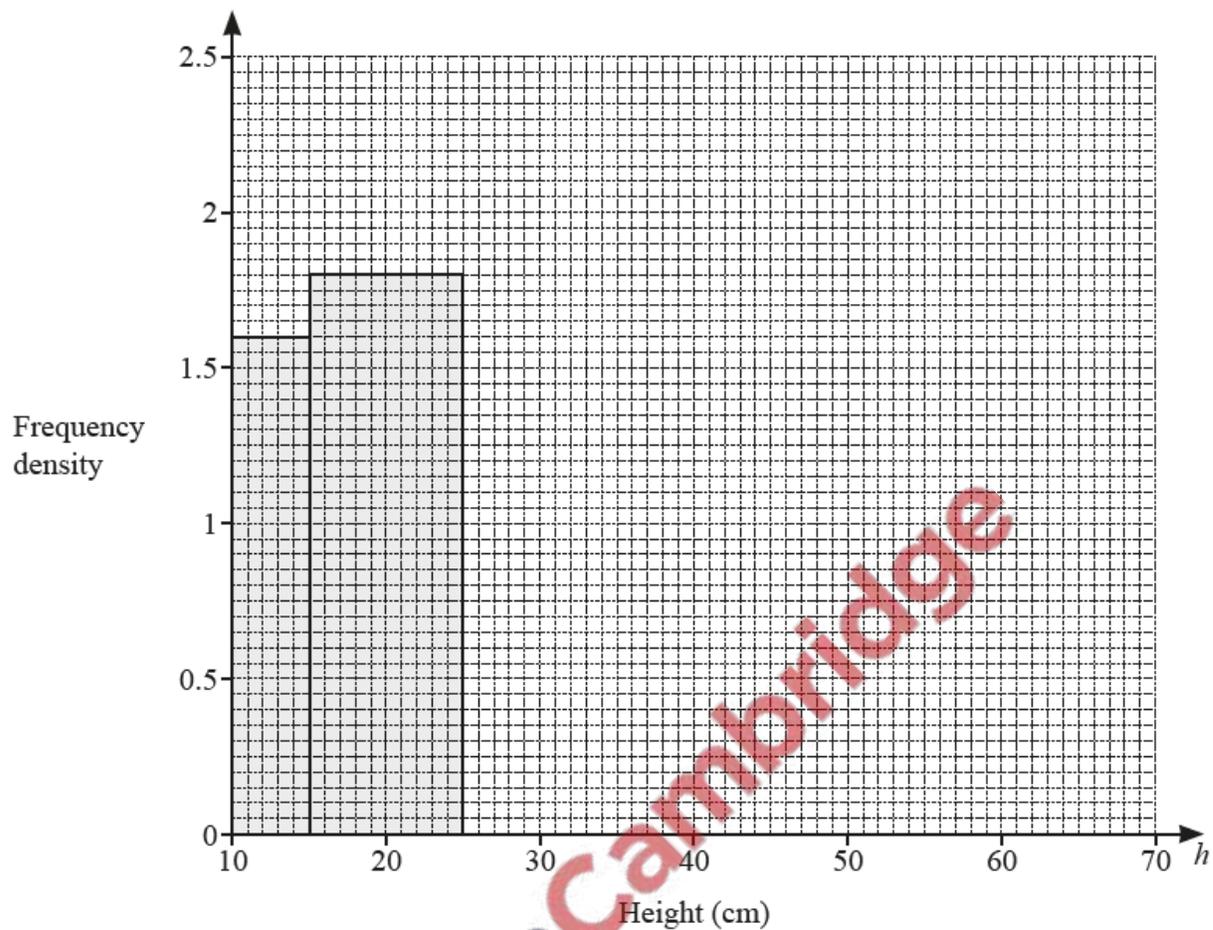**4.** Nov/2022/Paper_43/No.7

The height, h cm, of each of 100 plants is recorded.
The table shows information about the heights of these plants.

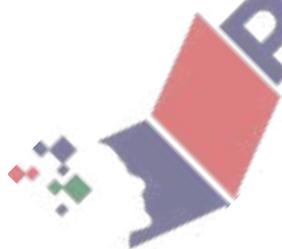| Height (h cm)	$10 < h \leqslant 15$	$15 < h \leqslant 25$	$25 < h \leqslant 40$	$40 < h \leqslant 60$	$60 < h \leqslant 70$
Frequency	8	18	28	33	13

3

(a) Complete the histogram to show this information.
The first two blocks have been drawn for you.

[3]

(b) Calculate an estimate of the mean height.

.... cm [4]