

Height (cm)	1	2	3	4	5	6
No. of seedlings	4	5	$x-2$	$x$	$y$	$y-12$

The table shows the height (cm) of 50 seedlings in a garden. Given that the mean height of the seedlings is 4 cm, find the:

- values of  $x$  and  $y$ ;
- median height.

11. (a) A bus has petrol tank in the shape of a cylinder. The cylinder is 125 cm high and has a diameter of 42 cm.
- How much will a full tank of petrol cost at the rate of GH¢ 5
  - If the bus uses petrol at the rate of 12.5 litres for every 50 km, how far can the bus travel on a full tank of petrol?
- (b) The interior angle of a regular polygon is  $x$ . If  $x$  is  $9^\circ$  less than the of  $153^\circ$  and  $143^\circ$ , find the number of sides of the polygon.

12. (a) A bag contains 18 balls that differ only in colour, 10 are blue and 7 red. If two balls are picked, one after the other without replacement, find the probability that both are:
- blue;
  - of same colour;
  - of different colour.

- (b) If  $\cos \theta = 0.8$ ,  $0^\circ < \theta < 90^\circ$ , find the value of  $\frac{4 \sin \theta}{\cos \theta - \sin \theta}$ .

13. (a) The radius and slant height of a right circular cone are 9 cm and 15 cm respectively. Find, correct to one decimal place, the:
- height;
  - volume of the cone.

(b)

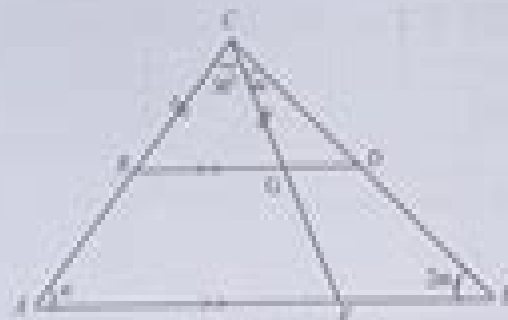


FIGURE 10.10.1

In the diagram,  $\overline{DE} \parallel \overline{AC}$ . If  $\angle ACF = 3a^\circ$  and  $\widehat{DE} = \widehat{CE}$ , find the values of  $a$  and  $x$ .

**END OF PAPER**

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**Ensheng Dong**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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