

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.

- 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¢ 5.50 per litre?
 - 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?
 - The interior angle of a regular polygon is x . If x is 9° less than the of 153° and 143° , find the number of sides of the polygon.

- A bag contains 18 balls that differ only in colour, 10 are blue and 8 are 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.

- If $\cos \theta = 0.8$, $0^\circ < \theta < 90^\circ$, find the value of $\frac{\sin \theta}{1 - \cos \theta}$.

- 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.

(11)



Note: Diagrams are not to scale

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 .

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