

Height (cm)	1	2	3	4	5	6
No. of seedlings	4	3	$x-2$	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¢ 5.50 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?
- (b) 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.

12. (a) 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.

- (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 10.10.12

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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Khosrow-Pour, D.B.A., Mehdi



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Table of Contents January 2014 Mathematics Paper 4hr

1. Understanding the eBook January 2014 Mathematics Paper 4hr
 - The Rise of Digital Reading January 2014 Mathematics Paper 4hr
 - Advantages of eBooks Over Traditional Books
2. Identifying January 2014 Mathematics Paper 4hr
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an January 2014 Mathematics Paper 4hr
 - User-Friendly Interface
4. Exploring eBook Recommendations from January 2014 Mathematics Paper 4hr
 - Personalized Recommendations
 - January 2014 Mathematics Paper 4hr User Reviews and Ratings
 - January 2014 Mathematics Paper 4hr and Bestseller Lists

5. Accessing January 2014 Mathematics Paper 4hr Free and Paid eBooks
 - January 2014 Mathematics Paper 4hr Public Domain eBooks
 - January 2014 Mathematics Paper 4hr eBook Subscription Services
 - January 2014 Mathematics Paper 4hr Budget-Friendly Options
6. Navigating January 2014 Mathematics Paper 4hr eBook Formats
 - ePub, PDF, MOBI, and More
 - January 2014 Mathematics Paper 4hr Compatibility with Devices
 - January 2014 Mathematics Paper 4hr Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of January 2014 Mathematics Paper 4hr
 - Highlighting and Note-Taking January 2014 Mathematics Paper 4hr
 - Interactive Elements January 2014 Mathematics Paper 4hr
8. Staying Engaged with January 2014 Mathematics Paper 4hr
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers January 2014 Mathematics Paper 4hr
9. Balancing eBooks and Physical Books January 2014 Mathematics Paper 4hr
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection January 2014 Mathematics Paper 4hr
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine January 2014 Mathematics Paper 4hr
 - Setting Reading Goals January 2014 Mathematics Paper 4hr
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of January 2014 Mathematics Paper 4hr
 - Fact-Checking eBook Content of January 2014 Mathematics Paper 4hr
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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