



General Instructions:

- i) All questions are compulsory.
- ii) The question paper consists of 20 questions divided into four sections A, B, C & D. Section – A comprises of 8 questions of 1 mark each, Section – B comprises of 6 questions of 2 marks each, Section – C comprises of 4 questions of 3 marks each & Section – D comprises of 2 questions of 4 marks each.

Section – A [1 x 8 = 8 marks]

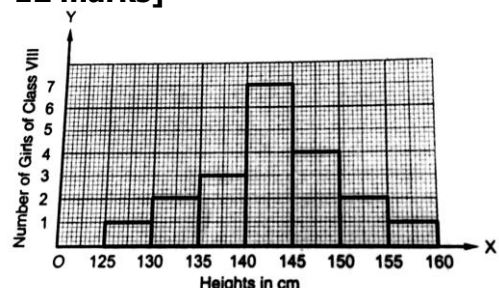
- 1. Name the graphs used to
 - a) Compare parts of a whole.
 - b) Display data that changes continuously over periods of time.
- 2. Find the surface area of a cube whose edge is 2.1 m.
- 3. Identify the proportion in each of the following.
 - a) Number of articles and their price.
 - b) Distance and time when the speed remains the same.
- 4. Simplify $(2^{-1} + 3^{-1})^{-1}$.
- 5. Name the point in the which the x axis and y axis meet in the Cartesian plane.
- 6. Find the height of a cuboid whose volume is 275cm^3 and base area is 25cm^2 .
- 7. Rohit bought 12 registers for Rs. 156/-, find the cost of 7 such registers.
- 8. The diameter of the base of a right circular cylinder is 42cm and the height is 10cm. Find the area of the curved surface.

Section – B [2 x 6 = 12 marks]

- 9. If 52 men can do a piece of work in 35 days, in how many days 28 men will do it?
- 10. In which quadrant/axis do the following points lie?
 - i) (2, -5) ii) (-4, 3) iii) (3, 0) iv) (0, -6)
- 11. By what number should 5^{-1} be multiplied so that the product may be equal to $(-7)^{-1}$.
- 12. The volume of a cube is 1000cm^3 . Find its total surface area.
- 13. Sumit takes 125 seconds in walking a distance of 100m. What distance would he cover in 315 seconds?
- 14. The dimensions of a cuboid are in the ratio 1:2:3 and its total surface area is 88m^2 . Find the dimensions of the cuboid.

Section – C [3 x 4 = 12 marks]

- 15. Observe the following histogram and answer the questions given below:
 - i) What information is being given by the graph?
 - ii) Which group does contain maximum girls?
 - iii) How many girls have a height of 145cm



and above?

Std. 8

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MATHEMATICS

16. If a and b vary inversely, find p, q and r.

a	8	2	p	5	1
b	10	q	20	r	80

17. Evaluate $(3^{-5} \times 10^{-5} \times 125) \div (5^{-7} \times 6^{-5})$.
18. The volume of a cylinder is 448cm^3 and height 7cm. Find its lateral surface area and total surface area.

Section – D [4 x 2 = 8 marks]

19. A class room is 4.5m long 3m wide and 350cm high. Find the cost of plastering the walls and ceiling of it at the rate Rs. 8/- per square metre.
20. The quantity of petrol filled in a car and the cost of petrol are given in the following table.

Litres of petrol filled	10	15	20	25
Cost of petrol	500	750	1000	1250

- i) Draw the graph for the above data.
- ii) Is it a linear graph?
- ii) Find the cost of 12 litres of petrol from the graph.

-x-x-x-x-x-x-