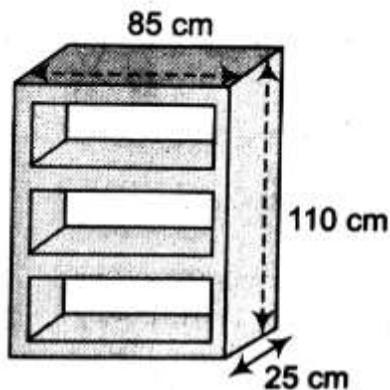
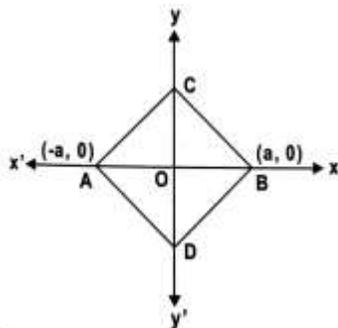


CREST Olympiads – A digital initiative to enhance practical knowledge

3. A wooden bookshelf has external dimensions as follows: Height = 110 cm, Depth = 25 cm, Breadth = 85 cm. The thickness of the plank is 5 cm everywhere. The external faces are to be polished and the inner faces are to be painted. If the rate of polishing is 20 paise per cm^2 and the rate of painting is 10 paise per cm^2 , then find the total expenses for polishing and painting the surface area of the bookshelf.
- (a) Rs. 3820 (b) Rs. 4530
(c) Rs. 5270 (d) Rs. 6390



4. In the given graph, triangle ABC and triangle ABD are equilateral triangles. Find the respective co-ordinates of points C and D.
- (a) $(0, a\sqrt{3})$ $(0, a\sqrt{3})$ (b) $(0, -a\sqrt{3})$ $(0, a\sqrt{3})$
(c) $(0, a\sqrt{3})$ $(0, -a\sqrt{3})$ (d) $(a\sqrt{3}, 0)$ $(-a\sqrt{3}, 0)$



Achiever's Section

9. Which of the following statements is correct?

Statement A: Two triangles are said to be congruent if two sides and an angle of one triangle are respectively equal to the two sides and an angle of the other.

Statement B: Two triangles are congruent if two sides and the included angle of one triangle are equal to the corresponding two sides and the included angle of the other.

- (a) Statement A is false and statement B is the correct explanation of A.
(b) Statement A is true and statement B is the correct explanation of A.
(c) Statement A is true and statement B is false.
(d) Statement A is false and statement B is true.
-

10. 400 students of class IX of a school appeared for a test of 100 marks in the subject of mathematics and the data about the marks secured is presented in the table.

Marks secured	0-25	26-50	51-75	Above 75
Number of students	50	220	100	30

If the result card of a student is picked up at random, then what is probability that the student has secured more than 50 marks?

- (a) 0.523 (b) 0.532
(c) 0.325 (d) 0.352

Answers

1. (a), 2. (c), 3. (c), 4. (c), 5. (a), 6. (d), 7. (d), 8. (b), 9. (a), 10. (c).