



MATHS

BOOKS - MODERN PUBLICATION

MODEL TEST PAPER 1

Example

1. Simplify : $\sqrt[4]{\sqrt[3]{(2)^2}}$



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2. Find the coefficient of x^2 in

$$(3x + x^3) \left(x + \frac{1}{x} \right)$$



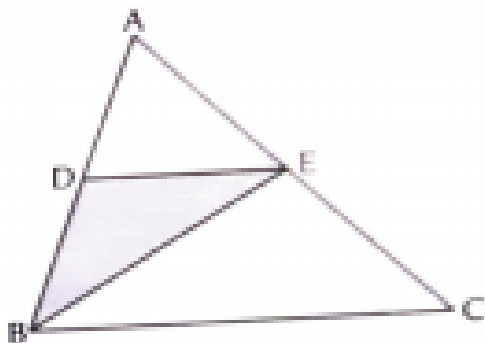
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3. If two interior angles on the same side of a transversal intersecting two parallel lines are in the ratio 2:3, then find the greater of the two angles.



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4. In figure.



D and E

are the mid-points of sides AB, AC respectively of $\triangle ABC$. If $ar(\triangle ABC) = 256\text{cm}^2$, then find $ar(\triangle BDE)$



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5. A bag contains 225 black balls, 75 red balls and 25 white balls. A ball is drawn at random from the bag. Find the probability of getting a black ball.



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6. The perpendicular distance of a point from the x-axis is 3 units and the perpendicular distance from y-axis is 5 units. Write coordinates of the point lies in the

A. I quadrant

B. II quadrant

C. III quadrant

D. IV quadrant

Answer:



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7. Find the mode of the given data

3,4,8,3,9,5,4,3



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8. Construct a $\triangle ABC$ in which, $AB = AC$ and $\angle B = 30^\circ$



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9. A cube and a cuboid have same volume. The dimensions of the cuboid are in the ratio 1:2:4. If the difference between the cost of polishing the cube and cuboid of the rate of Rs 5 per m^2 is Rs 80, find their volumes.



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