

Revision Questions-3

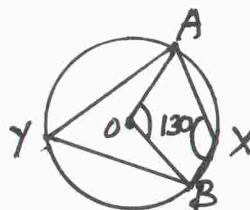
1. All edges of a square pyramid are of equal lengths. The length of the base edge is 30cm.

- (i) Find the slant height
- (ii) Find the surface area
- (iii) Find the volume.

2. Write $2x^2 - 7x + 6$ as a product of two first degree Polynomials.

3. In the figure O is the centre of the circle and $\angle AXB = 130^\circ$.

- (i) Find $\angle AYB$
- (ii) Find $\angle AOB$



4. Find the median

0-10	4
10-20	10
20-30	12
30-40	9
40-50	5

5. Find the Co-ordinates of the point of intersection of the lines $3x + 2y + 5 = 0$ and $2x - 3y - 1 = 0$

6. From all two digit numbers with either digit 1, 2 or 3. one number is chosen.

- (i) what is the chance that both digits being the same.
- (ii) what is the chance that the sum of the digits being 4.

7. Construct a triangle with angles $50^\circ, 60^\circ, 70^\circ$ and Circumradius 4cm.

8. The sum of reciprocals of two consecutive even numbers is $\frac{7}{24}$. Find the numbers.

9. A regular pentagon is drawn with vertices on a circle of radius 15cm. Calculate the length of its sides.

10. Find the Centre and Radius of the circle

$$x^2 + y^2 - 4x - 8y - 45 = 0.$$