(5)

Q.1 A) Choose the correct alternative.

1) Curved surface area of cylinder = ...

2) Total surface area of cylinder = ...

3) Volume of cube = ...

4) Volume of a cuboid = ...

5) Area of the circle = ...
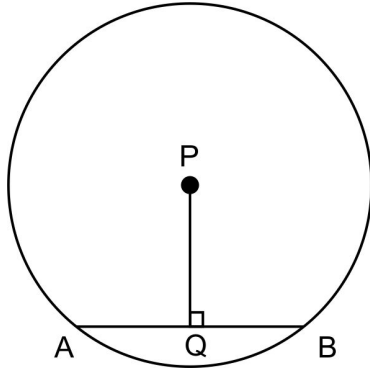
B) Answer the following questions **(5)**

1) Find the volume of a box if its length, breadth and height are 20 cm, 10.5 cm and 8 cm respectively.

2) which of the following statements are of inverse variation.
Number of workers on a job and time taken by them to complete the job.

3) Write the following statements using symbol of variation.
Circumference (c) of a circle is directly proportional to its radius (r)

4) A cuboid shape soap bar has volume 150 cc. Find its thickness if its length is 10 cm and breadth is 5 cm.

5) Write the following statements using symbol of variation.
The intensity (I) of light varies inversely with the square of distance (d) of a screen from lamp.

Q.2 Attempt the following questions. (Any five) **(10)**

1) A farmer sold foodgrains for 9200 rupees through an agent. The rate of commission was 2%. How much amount did the agent get.

2) Find the volume of box whose length is 12 m, breadth is 6 m and height is 5.5 m.

3) John sold books worth rupees 4500 for a publisher. For this he received 15% commission. Complete the following activity to find the total commission John obtained.

4) In a circle with centre P, chord AB is drawn of length 13 cm, seg PQ ⊥ chord AB, then find l(QB).

5) Find the volume of cylinder whose height is 7 m and radius is 10 m.

6) Find the length of diagonal of a square with side 8 cm

Q.3 Solve the following questions. (Any four) (12)

1) The radius of a circle is 13 cm and length of one of its chord is 10 cm. Find the distance of chord from the centre.

2) x varies inversely as y when x = 15 then y = 10 if x = 20 then y = ?

3) How many bricks of length 25 cm, breadth 15 cm and height 10 cm are required to build a wall of length 6 m, height 2.5 m and breadth 0.5 m?

4) A chord of length 16 cm is drawn in a circle of diameter 20 cm. Calculate its distance from the centre of the circle.

5) If marked price = Rs. 990 and percentage of discount find selling price.

Q.4 Answer the following (Any two) (8)

1) Complete the following table considering that cost of apples and their number are in direct variation.

Number of apples (x)	1	4	.....	12	20
Cost of apples (y)	8	32	56	.....	160

2) If selling price = Rs. 900, Discount is 20% then find the marked price.

3) Lengths of diagonals of a rhombus ABCD are 16 cm and 12 cm. Find the side and perimeter of the rhombus.