Circles

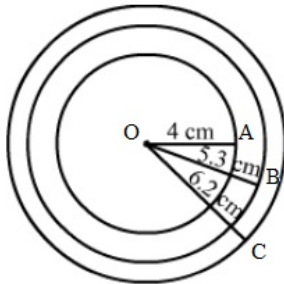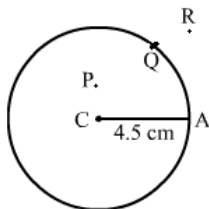## Q1
Answer :

This is the required diagram as asked in the question.
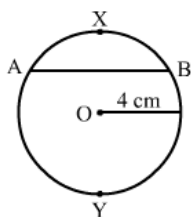
Q2
Answer :

This is the required diagram as asked in the question.

Q3

Answer :

This is the required diagram as asked in the question.

Q4

Answer :

(i) False
Diameter of a circle is a chord of the circle, not radius.
(ii) True
It is the longest chord of the circle.
(iii) False
A perpendicular drawn from the centre of the circle to the chord, bisects the chord.
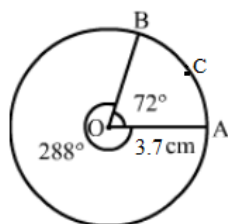(iv) False
It is a line passing through the circle that intersects the circle at two points.
(v) True.

Q5

Answer :

Therefore, the required arc is arc OACB.
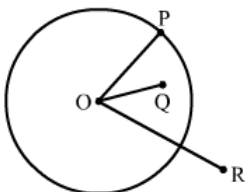
Q6

Answer :

(i) >
(ii) <
(iii) >
(iv) >
This is because the major arc covers more than half of the circumference of the circle.

Q7

Answer :

(i) passes through
(ii) on the circle, at the centre of the circle
(iii) chord
(iv) arc
(v) sector