Class: 10	Subject: Maths	Date: 17-08-2020	WorksheetNo: 8

LESSON : CIRCLES

Activity: 1

In the figure, radius of the circle is 3 c.m. and the central angle is 120^{o}.

Find the

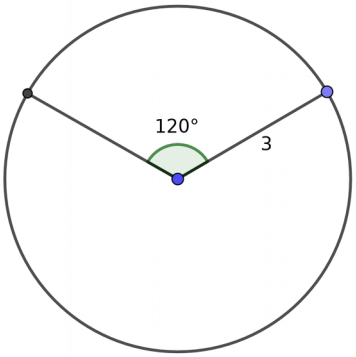
a) area b) Perimeter

of the circle.

Also find the

c) area d) Perimeter

of the sector



Activity: 2

AB= 4 cm

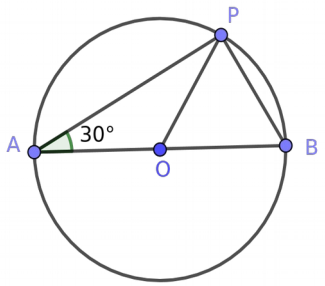
a) Draw some Right Triangles with AB as hypotenuse.

b) Draw a circle with AB as diameter.

c) Check whether all the third corners of the right triangles are in the circle.

Activity: 3

In the figure, AB is the diameter of the circle. $\angle A = 30^0$



Then find

a) $\angle ABP$

b) $\angle APB$

c) $\angle APO$

d) $\angle BPO$

e) $\angle AOP$

f) $\angle BOP$

Activity: 4

Prove that the two circles drawn on the equal sides of an isosceles triangle, as diameters pass through the midpoint of the third side.

Link	QR Code
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Class: 10	Subject: maths	Date: 21-8-20	Worksheet No: 10

Lesson: Circles L.O. : Right angle and circle

Concepts

1) If we join the ends of the diameter of a circle to a point inside the circle gives an angle greater than 90^0

2) If we join the ends of the diameter of a circle to a point outside the circle gives an angle less than 90^0

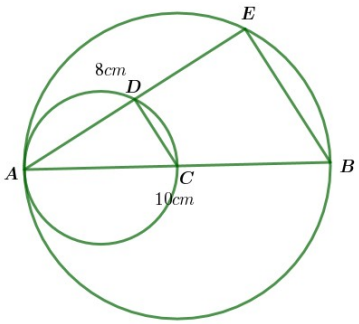
3) If a pair of lines drawn from the ends of a diameter of a circle are perpendicular to each other, then they meet on the circle

Acitivity 1

In the picture, a circle is drawn with AB as diameter and a smaller circle with half the length of AB as diameter. Both circles intersect at A. If AB=10cm and AE=8cm

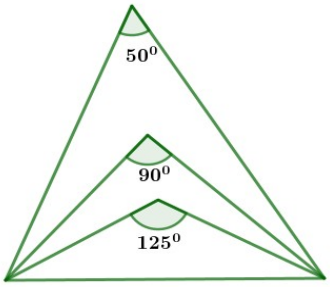
a) Find the lengths of AC and AD

b) What are the lengths of CD and BE ?



Acitivity 2

Suppose we draw a circle with the bottom side of the triangles in the picture as diameter. Find out whether the top corner of each triangle is inside the circle, on the circle or outside the circle.



Acitivity 3

In ΔABC, AB=9cm, BC= 12cm and AC= 15cm

a) Which type of triangle is this?

b) If we draw a circle with AB as diameter, where will be the position of C ?

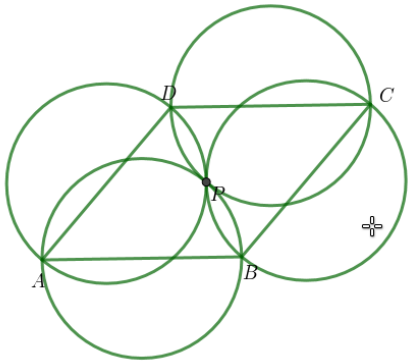
c) If we draw a circle with AC as diameter, where will be the position of B ?

Acitivity 4

In the picture, circles are drawn with the sides of rhombus ABCD as diameters. If we join BD

a)Which type of triangles are $\Delta ABD, \Delta CBD$?

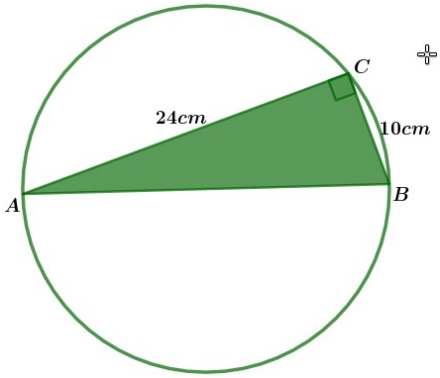
b) Prove that these four circles pass through a common point



Acitivity 5

In the figure, AC=24cm, BC=10cm, and $\angle C = 90^0$.

Find the perimeter and area of the circle



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