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Subject: Mathematics

Class: X

Date:7.04.2020

Answer key of Worksheet 1

Chapter-Theorem related to cirCle

Topic-theorem on , If a line segment Passing through the centre is perpendicular on a chord that line segment bisects the chord

1.	Choose the correct alternative. 1x15=15
	a)The largest chord in a circle is
	ans. i) diameter
	b) In a circle radius is 13cm and there is a chord of the length 10 cm. Diatance
	between the centre and the chord is
	ans i)12 cm
	c)The distance of the centre of a circle having 17 cm radius from a chord is 8 cm.
	Length of the chord is
	ans.ii) 30 cm
	d)Ratio of 2 chords PQ and RS in a circle with centre 0 is 1:1. Then angle POQ: angle
	ROS is
	ans.iii) 1:1
	e) A circle with centre 0 has 5 cm radius. AB is a chord of 8 cm. Distance between 0
	and AB is
	ansi)3 cm
	f)In a circle with centre 0, AB and CD are 2 equal chords . angle AOB =60°, then angle
	COD is
	ans. iii)60°
	g) In a circle with centre O, AB and CD are 2 equal chords . Distance of AB from O is 4
	cm. Distance of CD from O is
	ansi) 4 cm
	h) In a circle with centre O ,AB and CD equal and parallel chords . Length of the chord
	is 16 cm Radius of the circle is 10 cm .distance between 2 chords is
	ans.i) 12 cm
	i)A perpendicular bisector of a chord in a circle is
	ans. i) passing through the centre
	j) Number chords present in a circle
	ans. iii) infinite
	k)Circles having same centre but different radius are known as
	ans. ii) concentric circles
	I) Radius of 2 congruent circles are
	ans.i) equal

m)In a circle having 10 cm radius there are 2 parallel chords having length of 16 cm and 12 cm respectively. Find the distance between 2 chords when the chords are placed on the same side of the centre.

Ans.i) 2 cm

n) In a circle having 10 cm radius there are 2 parallel chords having length of 16 cm and 12 cm respectively. Find the distance between 2 chords when they are placed on 2 different sides of the centre.

Ans. ii) 14 cm

o) All diameters in a circle are passing through ans.i) centre

Aparajita Mondal