Lesson 1-9: Properties of Cords

Definitions



Radius:



Diameter:



Cord:

Perpendicular lines

Bisect

**Paper Circle activity**

Properties of Cords



Property 1: The perpendicular from the centre of the circle to a chord bisects the cord.



Property 2: The perpendicular bisector of any chord passes through the centre of the circle.

Eg Find the radius if AB=12cm

 A

 8cm

 B

Find AB

 10

 6

 A B

Find x

 x

 7

 8

 10

Find x

 10

 7 x

Find the missing angles

 O

Homework Pg 397 #3-7, 10, 14, 17