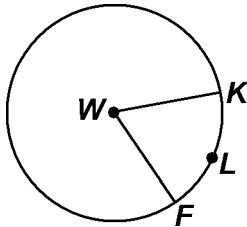


Name: _____

CC Geometry Homework

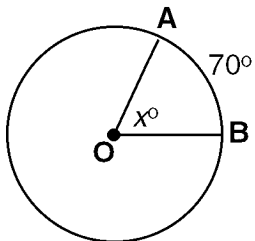
Central Angles and Arcs

- 1) In the diagram of circle W below, \widehat{KLF} has a measure of 66° .



What is the measure of central $\angle KWF$?

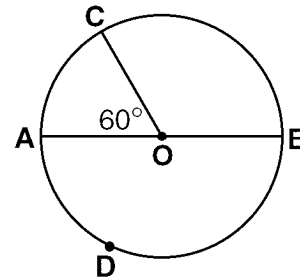
- 2) In the accompanying figure, \widehat{AB} of circle O measures 70° .



If the measure of $\angle AOB$ is represented by x° , find the value of x .

Questions 3 through 6 refer to the following:

In circle O below, \overline{AB} is a diameter and $m\angle AOC = 60^\circ$.

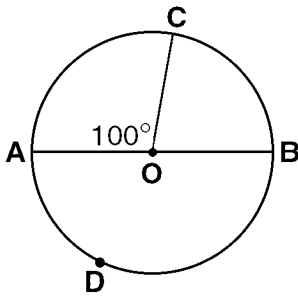


Find the value of the following:

- 3) $m\widehat{AC}$
- 4) $m\angle COB$
- 5) $m\widehat{CB}$
- 6) $m\widehat{CAB}$

Questions 7 and 8 refer to the following:

In circle O below, \overline{AB} is a diameter and $m\angle AOC = 100^\circ$.

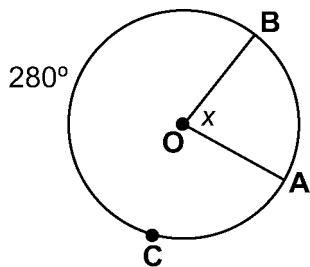


Find the value of the following:

7) $m\widehat{CB}$

8) $m\widehat{ADB}$

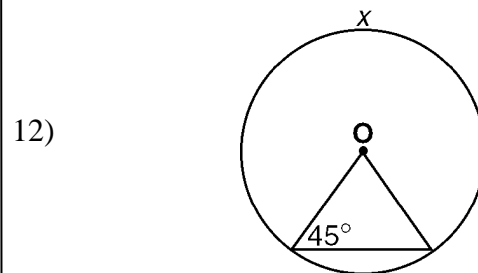
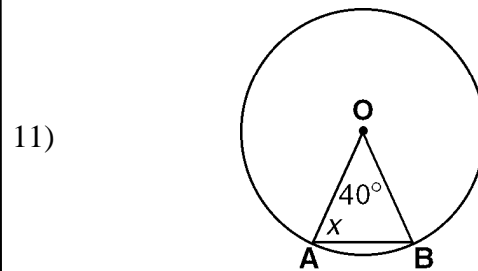
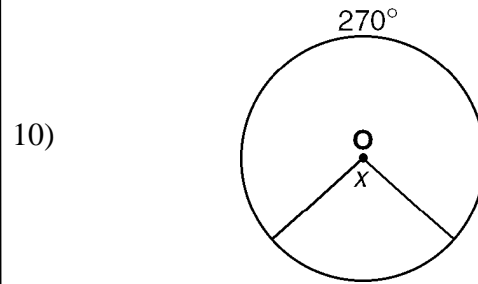
9) In the accompanying diagram of circle O , \widehat{ACB} has a measure of 280° .



What is the measure of central angle x ? [Show all work.]

Questions 10 through 12 refer to the following:

For the given circle, find the value of x . [Show all work.]



1) 66°

2) 70°

3) 60°

4) 120°

5) 120°

6) 240°

7) 80°

8) 180°

9) 80°

WORK SHOWN: $m\angle x = m\widehat{AB}, \widehat{AB} = 360 - \widehat{ACB} = 360 - 280 = 80$

10) 90°

WORK SHOWN: $360 - 270 = 90$

11) 70°

12) 270°