

5.5 Geometry: Circles

In this worksheet, we will practice everything involved with circles, including finding the radius, diameter, circumference, and area. If you would like to review the basics, links to video descriptions can be found at the end of this worksheet. Starred problems have video solutions.

- 1 Find the circumference and area of each of the following circles. Round to the nearest tenth.

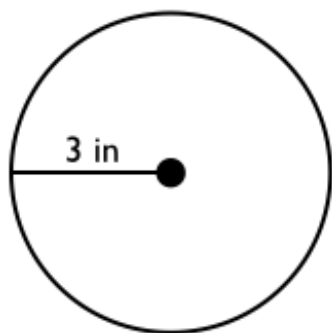


Figure 5.5.1

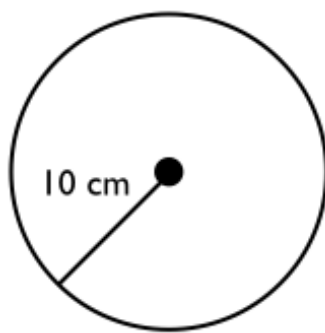


Figure 5.5.2

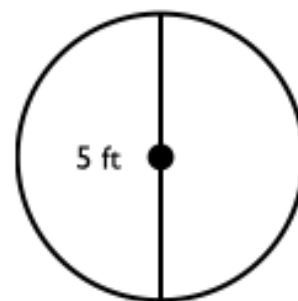
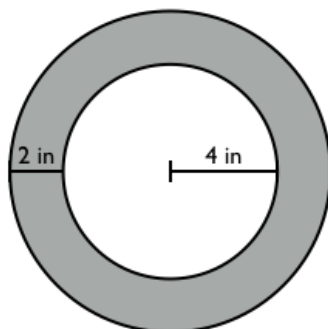


Figure 5.5.3

- 2 The diameter of a circle is 11 cm. What is the area of the circle in squared centimeters?

- (a) 95.033
- (b) 380.13
- (c) 34.558
- (d) 17.279

For questions 3 and 4 refer to the figure below.



3 * Find the area of the shaded region.

- (a) 4π squared cm
- (b) 2π squared cm
- (c) 20π squared cm
- (d) 10π squared cm

4 Which expression could be used to find the circumference of the larger circle?

- (a) 36π
- (b) 4π
- (c) 6π
- (d) 12π

Additional Resources:

- For review on:
 1. Terminology: <http://youtu.be/04N79tItPEA>
 2. Radius, diameter, and circumference: <http://youtu.be/jyLRpr2POMQ>
- Worked out example of finding area of a circle not on this worksheet: <http://youtu.be/Zy0hRgnFmIY>
- Video solution to problem 3 on this worksheet: http://youtu.be/jeh-ZDnC_ns