

Circumference and Area of a Circle - Practice Worksheet

Name: _____ Date: _____

Instructions: For each problem, find the circumference AND area of the circle. Use pi 3.14 and round answers to the nearest tenth unless told otherwise. Show your working.

1. A circle has radius $r = 3$ cm. Find its circumference and area.
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2. A circle has radius $r = 7$ m. Find its circumference and area.
.....
3. A circle has diameter $d = 10$ in. Find its circumference and area.
.....
4. A circle has diameter $d = 14$ ft. Find its circumference and area.
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5. A circular garden has radius $r = 9$ m. Find its circumference and area.
.....
6. A coin has diameter $d = 2.4$ cm. Find its circumference and area.
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7. A circle has area $A = 50.24 \text{ cm}^2$. Find its radius and circumference.
.....
8. A circle has circumference $C = 62.8$ m. Find its radius and area.
.....
9. A semicircle has diameter $d = 12$ cm. Find the perimeter (straight edge + curved edge) and area of the semicircle.
.....
10. A circular track has radius $r = 50$ m. A runner completes 4 laps. What total distance does she run? (Use pi 3.14)
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Answer Key

1. $C = 18.8$ cm; $A = 28.3 \text{ cm}^2$
2. $C = 44.0$ m; $A = 153.9 \text{ m}^2$
3. $C = 31.4$ in; $A = 78.5 \text{ in}^2$
4. $C = 44.0$ ft; $A = 153.9 \text{ ft}^2$
5. $C = 56.5$ m; $A = 254.3 \text{ m}^2$
6. $C = 7.5$ cm; $A = 4.5 \text{ cm}^2$
7. $r = 4$ cm; $C = 25.1$ cm
8. $r = 10$ m; $A = 314.0 \text{ m}^2$
9. Perimeter = 30.8 cm; Area = 56.5 cm^2
10. One circumference = 314 m; 4 laps = 1256 m

