Lesson 11.4 Practice: Circumference and Arc Length

School Launch · Geometry · Unit 11: Area and Perimeter · Worksheet A

Calculator allowed

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Find the circumference of a circle of radius 4 cm, exact and to the nearest tenth. EASY

2. Find the circumference of a circle of radius 16 cm, exact and to the nearest tenth. EASY

3. Find the circumference of a circle of radius 20 cm, exact and to the nearest tenth. EASY

4. Find the length of an arc of 214° in a circle of radius 14 (exact). MEDIUM

5. Find the length of an arc of 228° in a circle of radius 8 (exact). MEDIUM

6. Find the length of an arc of 295° in a circle of radius 15 (exact). MEDIUM

7. Find the length of an arc of 297° in a circle of radius 4 (exact). MEDIUM

8. Find the length of an arc of 197° in a circle of radius 15 (exact). HARD

9. Find the length of an arc of 83° in a circle of radius 2 (exact). HARD

10. Find the length of an arc of 55° in a circle of radius 19 (exact). HARD