Name: _____ Date: _____

Area Circumference Challenge - Medium

Use $\pi \approx 3.14$. Round to the nearest hundredth. Include units.

1. Find the area of a quarter circle with radius 4 m.

2. Find the perimeter of a quarter circle with radius 15 ft (curved part plus two radii).

3. Find the perimeter of a semicircle with radius 10 m (curved part plus the diameter).

4. Find the area of a semicircle with diameter 16 cm.

5. Find the perimeter of a quarter circle with radius 10 ft (curved part plus two radii).

6. Find the perimeter of a quarter circle with radius 9 cm (curved part plus two radii).

Name: _____ Date: _____

Area Circumference Challenge - Medium

Use $\pi \approx 3.14$. Round to the nearest hundredth. Include units.

7. Find the perimeter of a quarter circle with radius 10 cm (curved part plus two radii).

8. Find the area of a semicircle with diameter 6 in.

9. Find the perimeter of a quarter circle with radius 4 ft (curved part plus two radii).

10. Find the perimeter of a quarter circle with radius 11 in (curved part plus two radii).

11. Find the perimeter of a quarter circle with radius 8 in (curved part plus two radii).

12. Find the perimeter of a quarter circle with radius 8 cm (curved part plus two radii).

Name: _____ Date: _____

Area Circumference Challenge - Medium

Use $\pi \approx 3.14$. Round to the nearest hundredth. Include units.

13. Find the perimeter of a quarter circle with radius 4 m (curved part plus two radii).

14. Find the perimeter of a quarter circle with radius 9 m (curved part plus two radii).

15. Find the perimeter of a semicircle with radius 13 ft (curved part plus the diameter).

16. Find the area of a quarter circle with radius 15 in.

Area Circumference Challenge - Medium - Answer Key

1. Find the area of a quarter circle with radius 4 m.

   ≈ 12.56 sq m

2. Find the perimeter of a quarter circle with radius 15 ft (curved part plus two radii).

   ≈ 53.55 ft

3. Find the perimeter of a semicircle with radius 10 m (curved part plus the diameter).

   ≈ 51.4 m

4. Find the area of a semicircle with diameter 16 cm.

   ≈ 100.48 sq cm

5. Find the perimeter of a quarter circle with radius 10 ft (curved part plus two radii).

   ≈ 35.7 ft

6. Find the perimeter of a quarter circle with radius 9 cm (curved part plus two radii).

   ≈ 32.13 cm

Area Circumference Challenge - Medium - Answer Key

7. Find the perimeter of a quarter circle with radius 10 cm (curved part plus two radii).

   ≈ 35.7 cm

8. Find the area of a semicircle with diameter 6 in.

   ≈ 14.13 sq in

9. Find the perimeter of a quarter circle with radius 4 ft (curved part plus two radii).

   ≈ 14.28 ft

10. Find the perimeter of a quarter circle with radius 11 in (curved part plus two radii).

    ≈ 39.27 in

11. Find the perimeter of a quarter circle with radius 8 in (curved part plus two radii).

    ≈ 28.56 in

12. Find the perimeter of a quarter circle with radius 8 cm (curved part plus two radii).

    ≈ 28.56 cm

Area Circumference Challenge - Medium - Answer Key

13. Find the perimeter of a quarter circle with radius 4 m (curved part plus two radii).

    ≈ 14.28 m

14. Find the perimeter of a quarter circle with radius 9 m (curved part plus two radii).

    ≈ 32.13 m

15. Find the perimeter of a semicircle with radius 13 ft (curved part plus the diameter).

    ≈ 66.82 ft

16. Find the area of a quarter circle with radius 15 in.

    ≈ 176.62 sq in