Calculate the area of the shaded region of each figure and the perimeter

or circumference if indicated. Show all your work. Use the approximation 3.14 for π.

r = 14 cm

r = 6.5 cm

1. A = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

 C = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ (combined C1 + C2)

5 cm

14 cm

14 cm

22 cm

8 cm

15 cm

16 cm

1. A = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

 P = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

d = 22 cm

 24 cm

12 cm

5 cm

13 cm

1. A = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

P = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. A = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

6.4 cm

9.2 cm

9.2 cm

3.8 cm

6.4 cm

P = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

34 cm

14 cm

17.8 cm

9.2 cm

1. A = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

P = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ (P1 + P2)

**Answer KEY**

Calculate the area of the shaded region of each figure and the perimeter

or circumference if indicated. Show all your work. Use the approximation 3.14 for π.

r = 14 cm

r = 6.5 cm

1. A = **482.775 cm2**

 C = **128.74 cm (combined C1 + C2)**

14 cm

14 cm

22 cm

8 cm

15 cm

16 cm

5 cm

1. A = **275 cm2**

 P = **126 cm**

d = 22 cm

 24 cm

12 cm

5 cm

13 cm

1. A = **626.97 cm2**

P = **143.54 cm**

1. A = **35.88 cm2**

6.4 cm

9.2 cm

9.2 cm

3.8 cm

6.4 cm

P = **93.6 cm**

34 cm

14 cm

17.8 cm

9.2 cm

1. A = **568.4 cm2**

P = **150 cm** **(P1 + P2)**