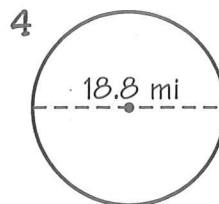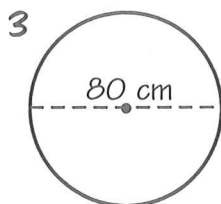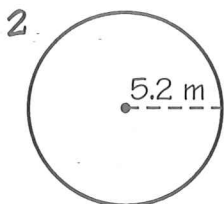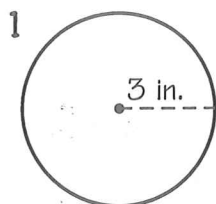# What Happened When the TV Set Asked the Remote Control for a Date?
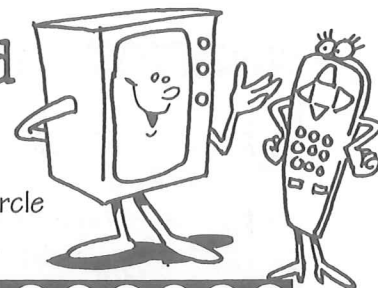
Find each answer in the answer column. Write the letter of the answer in the circle that contains the exercise number. Most answers are rounded. Use 3.14 for π.

Use the diameter (d) or radius (r) to find the area.

1. (circle, 3 in.)

2. (circle, 5.2 m)

3. (circle, 80 cm)

4. (circle, 18.8 mi)
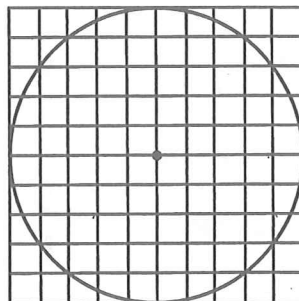
5. $r = 12$ in.

6. $r = 0.66$ mi

7. $d = 7.5$ m.

8. $d = 2$ cm

Solve.

9. Radio station KLUV broadcasts in all directions to a distance of 60 mi. What is the area over which the station can be heard?

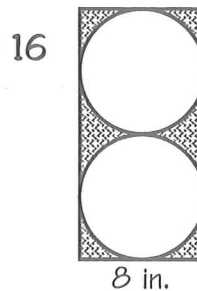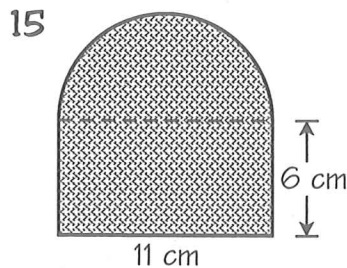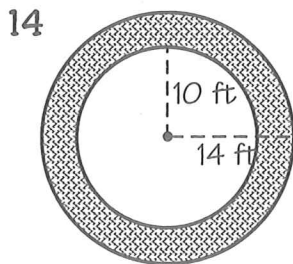10. How many squares are inside the circle below?

11. A fugitive has escaped in a train wreck. The police believe he could not have traveled more than 7 mi in any direction from the wreck. How many square miles must be searched?

12. A manhole cover has a diameter of 3 ft. It weighs 8.2 lb per square foot. How much does the manhole cover weigh?

13. A 12-inch diameter pizza is cut into 8 equal pieces. What is the area of each piece?

Find the area of the shaded region.

14. (shaded ring, 10 ft, 14 ft)

15. (shaded shape, 6 cm, 11 cm)

16. (shaded rectangle with two circles, 8 in.)

Answers 1-8

L 269.4 mi²
O 5024 cm²
S 44.2 m²
D 28.3 in.²
F 1.54 mi²
M 452.2 in.²
T 5196 cm²
E 84.9 m²
H 3.14 cm²
A 48.3 m²
U 1.37 mi²
Y 438.3 in.²
N 277.5 mi²

Answers 9-16

S 124.3 cm²
H 153.9 mi²
A 62.4 lb
T 301.4 ft²
F 18.9 in.²
E 78.5
I 57.9 lb
D 113.5 cm²
L 82.4
W 11,304 mi²
R 27.5 in.²
B 326.4 ft²
N 14.1 in.²
O 9285 mi²

Answer circles: 7 11 2 14 6 16 4 10 1 8 12 5 15 3 9 13