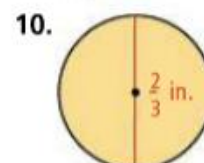10.7 HW p. 663 (8-18 evens, 24, 29, 38, 39)

Find the area of each circle. Leave your answer in terms of π.

7.

6 m

8.

11 cm

9.

1.7 ft

10.

$\frac{2}{3}$ in.
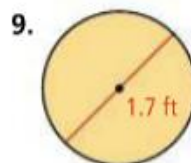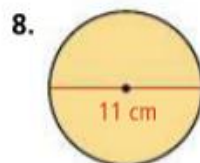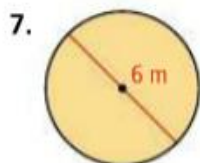
STEM **11. Agriculture** Some farmers use a circular irrigation method. An irrigation arm acts as the radius of an irrigation circle. How much land is covered with an irrigation arm of 300 ft?
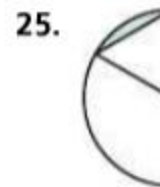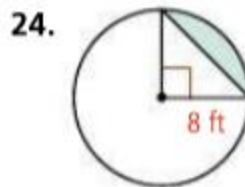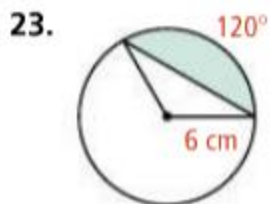
12. You use an online store locator to search for a store within a 5-mi radius of your home. What is the area of your search region?

Find the area of each shaded sector of a circle. Leave your answer in terms of π.
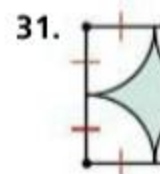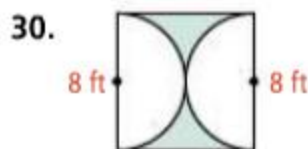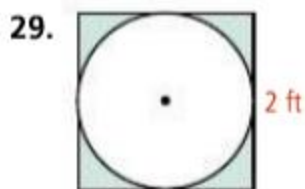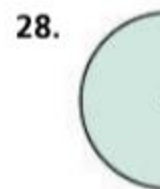
13.

45°
18 yd

14.

16 cm

15.

26 m
120°

16.

30° 12 in.

17.

4 ft

18.

16 cm
45°
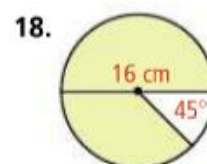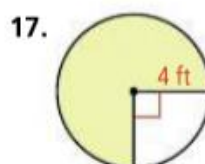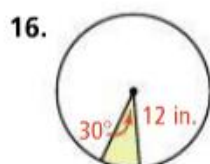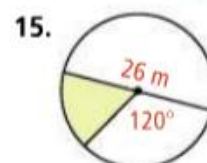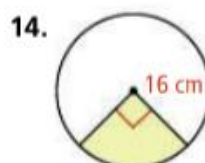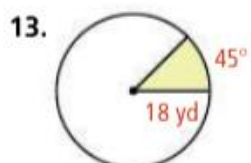
Find the area of each shaded segment. Round your answer to the nearest tenth.

23.

120°

6 cm

24.

8 ft

25.

Find the area of the shaded region. Leave your answer in terms of π and in simplest radical form.

26.

18 ft

27.

120°

9 cm

28.

29.

2 ft

30.

8 ft   8 ft

31.
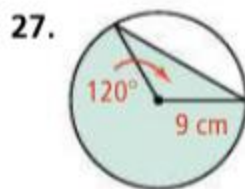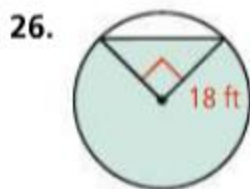
38. The circumference of a circle is 26π in. What is its area? Leave your answer in terms of π.

39. In a circle, a 90° sector has area 36π in.². What is the radius of the circle?