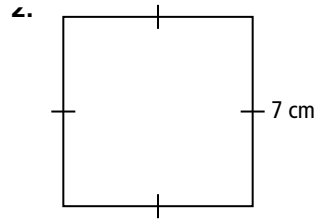
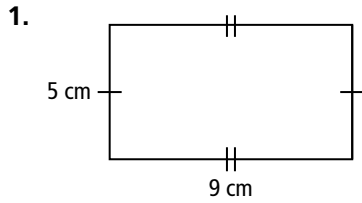


Perimeter and Area in the Coordinate Plane

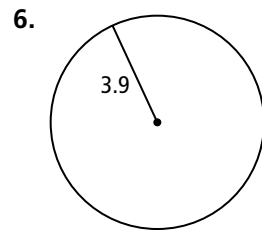
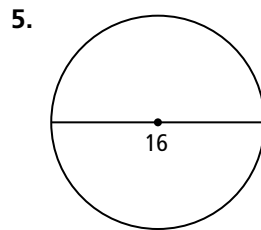
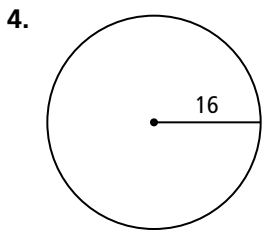
9.1

Find the perimeter of each figure.



3. An 8-ft-by-10-ft rug leaves 1 ft of the bedroom floor exposed on all four sides. Find the perimeter of the bedroom floor.

Find the circumference of each circle in terms of π .



Graph each figure in the coordinate plane. Find its perimeter and area.

7. $X(-4, 2)$, $Y(2, 10)$, $Z(2, 2)$

8. $R(1, 2)$, $S(1, -2)$, $T(4, -2)$

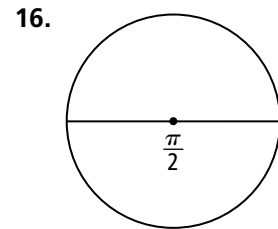
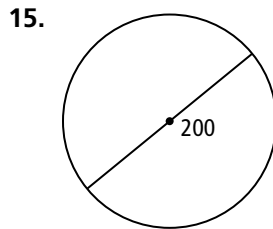
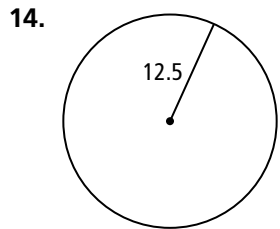
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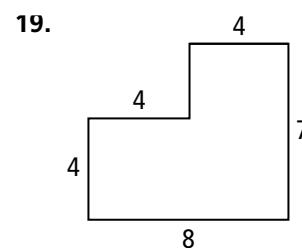
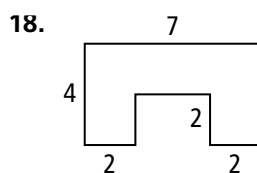
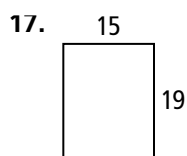
11. 4 ft, 15 in.

12. 90 in., 3 yd

13. 3 m, 130 cm

Find the area of each circle in terms of π .





Find the circumference and area of each circle, using $\pi = 3.14$. If necessary, round to the nearest tenth.

20. $r = 5$ m

21. $d = 2.1$ in.

22. $d = 2$ m

23. $r = 4.7$ ft

24. The area of a circle is 25π in.². What is its radius?

25. A rectangle has twice the area of a square. The rectangle is 18 in. by 4 in. What is the perimeter of the square?

26. **Reasoning** If two circles have the same circumference, what do you know about their areas? Explain.

27. **Coordinate Geometry** The center of a circle is $A(-3, 3)$, and $B(1, 6)$ is on the circle. Find the area of the circle in terms of π .

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- the kitchen
- the bedroom
- the bathroom
- the closet
- What is the area of the main hallway? Explain how you could find this area using the area of each room.

