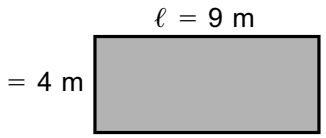
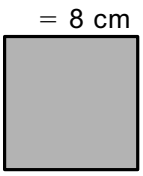
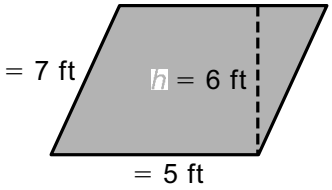
Name _____ Date _____

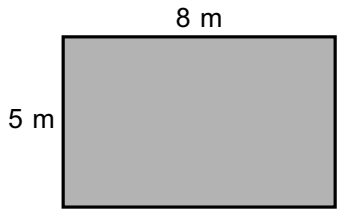
1-8 Study Guide

Integration: Geometry
Perimeter and Area

Perimeter is the distance around the figure.
Area is the measure of the inside of the figure in square units.

Figure	Rectangle	Square	Parallelogram
Perimeter	$P = 2\ell + 2w$	$P = 4s$	$P = 2a + 2b$
Area	$A = \ell w$	$A = s^2$	$A = bh$
Example			
	$P = 2(9) + 2(4)$ $P = 18 + 8 = 26$ m $A = 9 \cdot 4$ $A = 36$ sq. m	$P = 4 \times 8$ $P = 32$ cm $A = 8^2$ $A = 64$ sq. cm	$P = 2(7) + 2(5)$ $P = 14 + 10 = 24$ ft $A = 5 \cdot 6$ $A = 30$ sq. ft

Find the perimeter and area of each figure.

1. 

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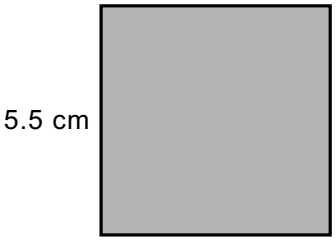
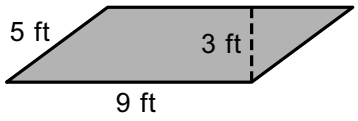
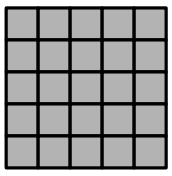
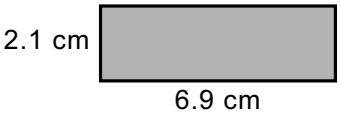
3. 

4. 

5. 

6. 

7. A rectangle is 18 feet long. Find its perimeter if its width is $\frac{1}{2}$ of its length.

8. Use an equation to find the width of a rectangle that has a length of 12 meters and an area of 84 square meters.

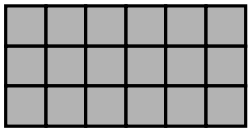
Name _____ Date _____

1-8 Practice

Integration: Geometry
Perimeter and Area

Find the perimeter and area of each figure.

1.



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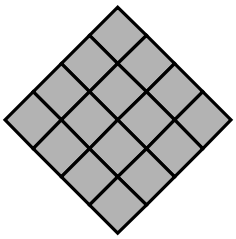

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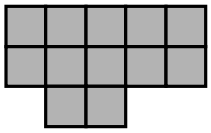

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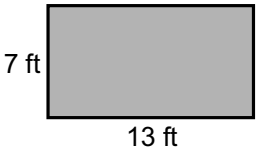

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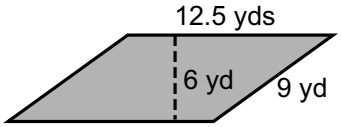

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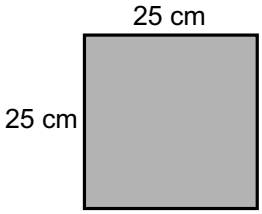

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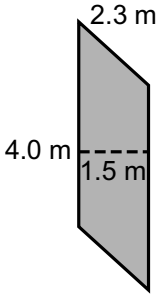

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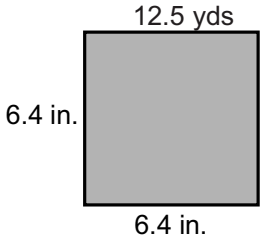

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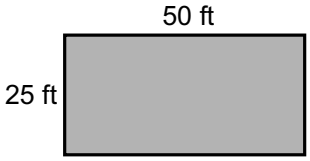

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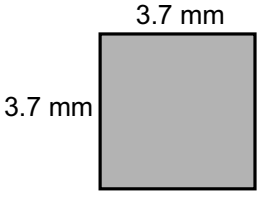

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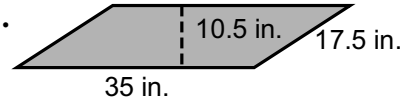

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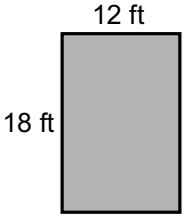


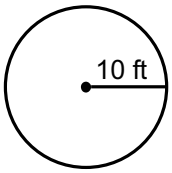
Name _____ Date _____

11-1 Practice

Area of Circles

Find the area of each circle to the nearest tenth.

1.



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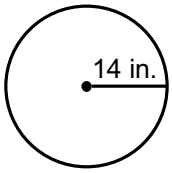

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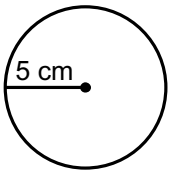

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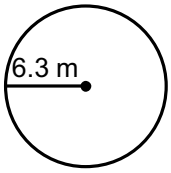

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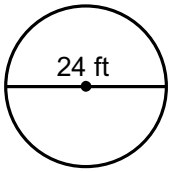

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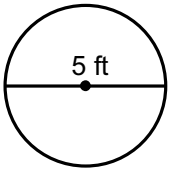


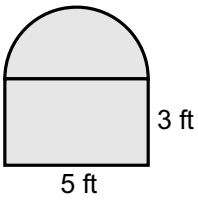
7. Find the area of a circle that has a diameter of 60 feet.

8. Find the area of a circle that has a radius of 22 feet.

9. Find the diameter of a circle that has an area of 36π square inches.

Find the area of each shaded region to the nearest tenth.

10.



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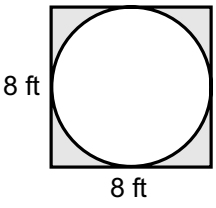

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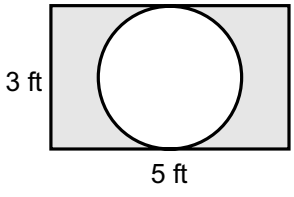


13. A circular flower garden has a diameter of 16 feet. At the center of the garden is a circular pool 5 feet in diameter. If a coin is tossed at random into the garden, what is the probability that the coin will land in the pool?

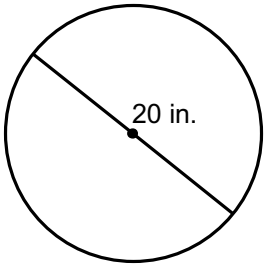
Name _____ Date _____

7-7 Practice

Integration: Geometry
Circles and Circumference

Find the circumference of each circle to the nearest tenth. Use $\frac{22}{7}$ or 3.14 for π.

1.



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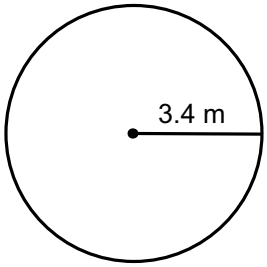

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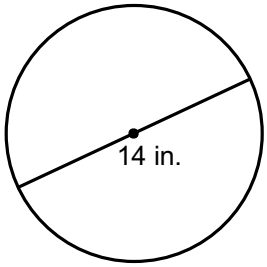

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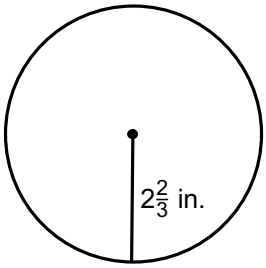

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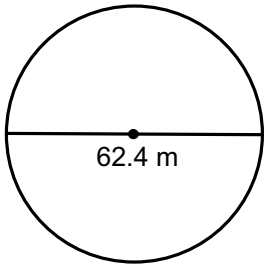

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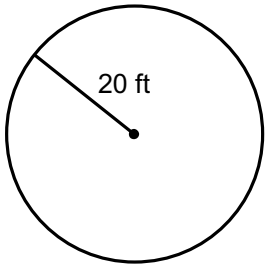

7. The diameter is $4\frac{1}{7}$ inches.

8. The radius is 18 feet.

9. The diameter is 36.4 centimeters.

10. The radius is 27 yards.

11. The diameter is $6\frac{2}{3}$ yards.

12. The radius is 4.9 feet.

13. The diameter is $2\frac{1}{2}$ miles.

14. The diameter is 6.8 meters.