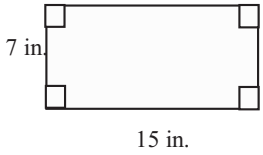
NAME_____

Module 13 **Perimeter, Area, and Volume**
Lesson 2 **Area**

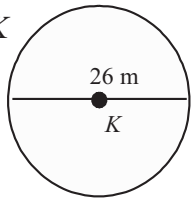
Independent Practice 13.2

Find the area.

1.



2. Circle K



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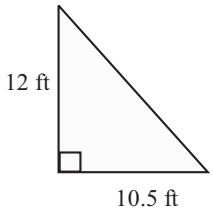

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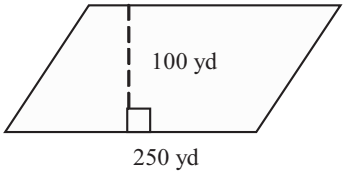

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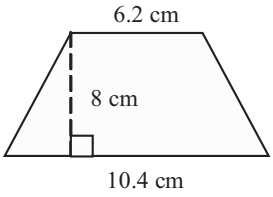

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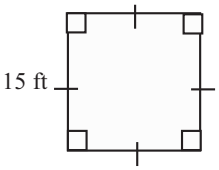


7. A large banner in the shape of a parallelogram has a base of seven feet and a height of four feet. What is the area of the banner?

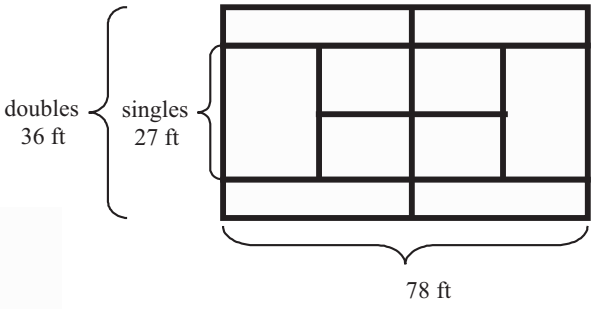
8. A rectangular swimming pool cover has an area of 340 square feet. The width of the cover is 17 feet. What is the length?

9. Jerome wants the perimeter of a rectangular vegetable garden to be 28 yards. Complete the table below to find the greatest and least possible areas that he can obtain by using whole-number dimensions only. Tell which dimensions give these areas.

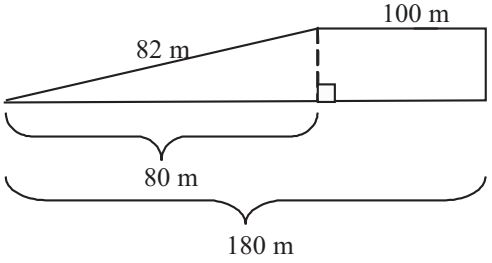
Length (yd)	Width (yd)	*P* (yd)	*A* (yd^2)
1		28	
2		28	
3		28	
4		28	
5		28	
6		28	
7		28	

10. A discus thrower must stand inside a circle that is 8 feet $2\frac{1}{2}$ inches in diameter. Find the area of the circle to the nearest whole inch.

11. A doubles tennis court is nine feet wider than a singles tennis court. How much greater is the area of the doubles tennis court than the singles tennis court?



12. Find the area of the trapezoid.



NAME_____

Module 13 Perimeter, Area, and Volume
Lesson 2 Area

Journal

1. If you know the perimeter of a square, can you determine its area? How? What about for a rectangle that is not a square? Explain.

2. How is the formula for the area of a triangle related to the formula for the area of a parallelogram? Explain.

3. Explain how to find the length of the base of a triangle if you know the height and area of the triangle.

4. How can you find all the different whole-number dimensions of a rectangle whose perimeter is 26 feet long?

Cumulative Review

Fill in the blanks.

1. 425 min = ____ h ____ min

2. 748 g = _____ mg

3. 7.5 gal = _____ pt

4. 74 yd = _____ in.

Perform the indicated operation.

5. 45 h ÷ 4

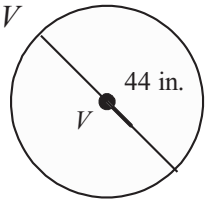
6. 128 mL × 21

7.
$$\begin{array}{r} 22\text{ h }\ 47\text{ min} \\ +\ \ 8\text{ h }\ 18\text{ min} \\ \hline \end{array}$$

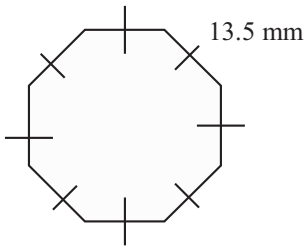
8.
$$\begin{array}{r} 18\text{ gal }\ 2\text{ qt} \\ -\ \ 3\text{ gal }\ 3\text{ qt} \\ \hline \end{array}$$

Find the perimeter or circumference.

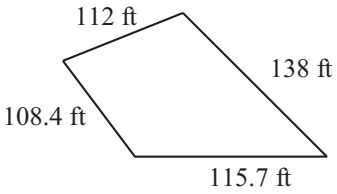
9. Circle V



10.



11.



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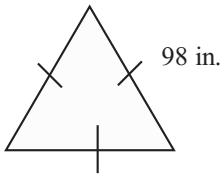

Additional Work Area