## **Exercises**

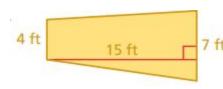




## Vocabulary and Concept Check

1. **VOCABULARY** Identify the bases and the height of the trapezoid.





Base 1: \_\_\_\_\_ Base 2: \_\_\_\_ Height: \_\_\_\_

2. REASONING What measures do you need to find the area of a trapezoid?

3. WHICH ONE DOESN'T BELONG? Which one does not belong with the other three? Explain your reasoning.

$$\frac{1}{2}bh$$

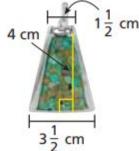
lw

$$2\ell + 2w$$

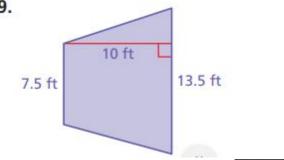
$$\frac{1}{2}h(b_1+b_2)$$

## Find the area of the trapezoid.

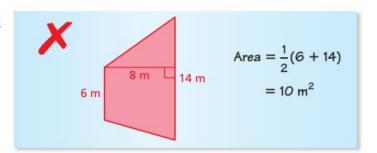
8.



9.

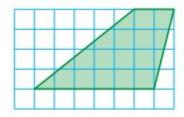


10. ERROR ANALYSIS Describe and correct the error in finding the area of the trapezoid.



Find the area of the trapezoid.

12.



Find the area of a trapezoid with height h and bases  $b_1$  and  $b_2$ .

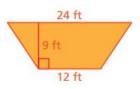
**16.** h = 22 cm

 $b_1 = 10.5 \text{ cm}$ 

 $b_2 = 12.5 \text{ cm}$ 

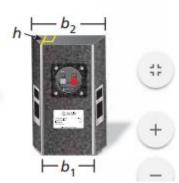
**19. REASONING** The rectangle and the trapezoid have the same area. What is the length  $\ell$  of the rectangle?



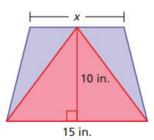


21. AUDIO How many times greater is the area of the floor covered by the larger speaker than by the smaller speaker?





- **22.** The triangle and the trapezoid share a 15-inch base and a height of 10 inches.
  - **a.** The area of the trapezoid is less than twice the area of the triangle. Find the values of *x*. Explain your reasoning.
  - **b.** Can the area of the *trapezoid* be exactly twice the area of the triangle? Explain your reasoning.



a.

	Fair Gar	ne Review What you	learned in previous	grades & lessons
			· ·	
Plo	t the ordered	pair in a coordinate plane.	(Skills Review H	
	t the ordered (5, 0)	pair in a coordinate plane.	25. (0, 3)	
23.	(5, 0)	24. (2, 4) HOICE Which expression re	<b>25.</b> (0, 3)	<b>26.</b> (6, 1

Do 23 -26 on your grid and label the ordered pair.