Name _____ Core ____ Date _____

4.1 Exercises

Check It Out
Help with Homework
BigIdeasMath.com

Vocabulary and Concept Check

1. **WRITING** What is the area of a polygon? Explain how the perimeter and the area of the polygon are different.

_____

_____

_____

_____

2. **CHOOSE TOOLS** Construct a parallelogram that has an area of 24 square inches. Explain your method.

Construct it on your grid. Explain on the lines below.

_____

_____

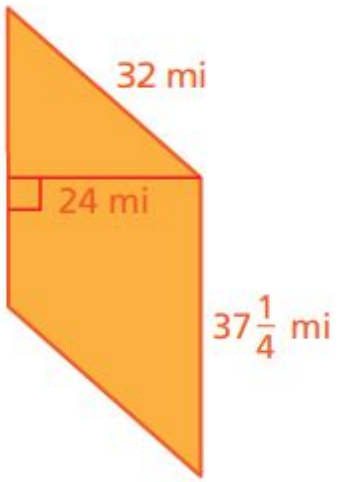
_____

_____

Practice and Problem Solving

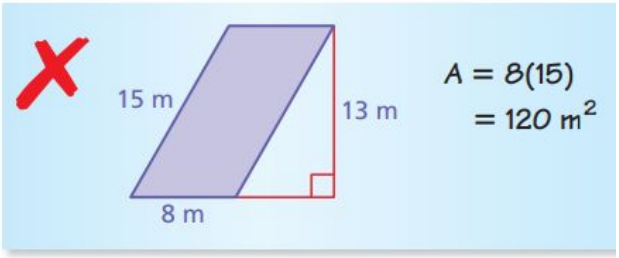
Find the area of the parallelogram.

8.



Area: _____

9. ERROR ANALYSIS Describe and correct the error in finding the area of the parallelogram.



_____

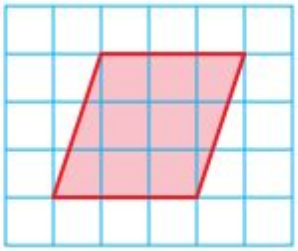
_____

_____

_____

Find the area of the parallelogram.

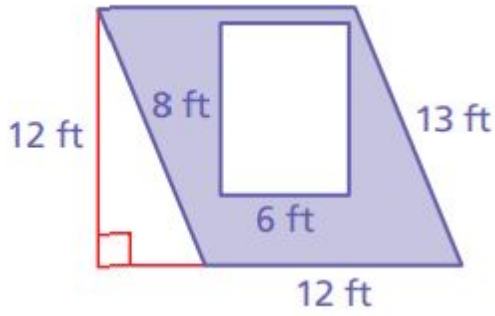
12.



Area: _____

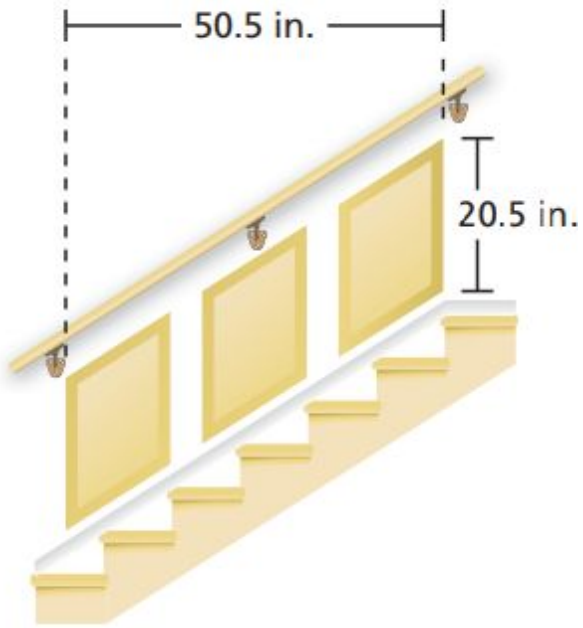
Find the area of the shaded region.

16.



Area of shaded region: _____

19. **STAIRCASE** The staircase has three parallelogram-shaped panels that are the same size. The horizontal distance between each panel is 4.25 inches. What is the area of one panel?



Area of one panel: _____

Fair Game Review What you learned in previous grades & lessons

Use mental math to multiply. *(Skills Review Handbook)*

Use mental math to multiply. *(Skills Review Handbook)*

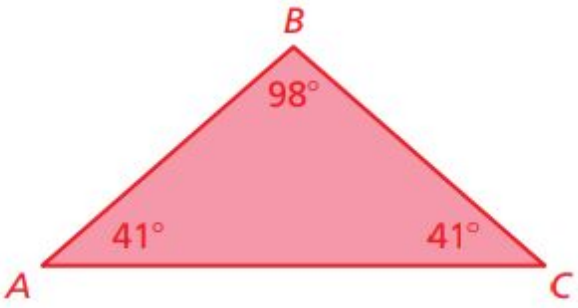
22. $\frac{1}{2} \times 26$ _____

23. 82×20 _____

24. 16×30 _____

25. $\frac{1}{2} \times 236$ _____

26. MULTIPLE CHOICE Which of the following describes angle B? *(Skills Review Handbook)*

(A) acute (B) obtuse

(C) right (D) isosceles