

Name: _____



PRACTICE



TUTORIAL

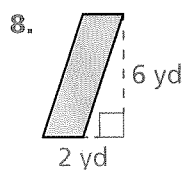
Practice & Problem Solving



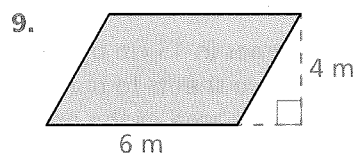
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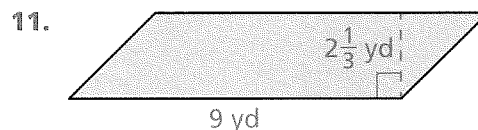
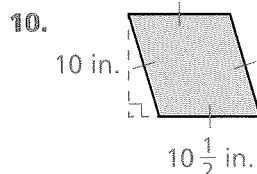
Leveled Practice In 8–11, find the area of each parallelogram or rhombus.



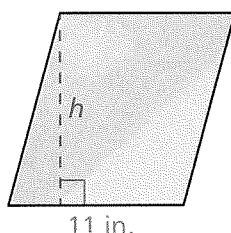
$$\begin{aligned} A &= b \cdot h \\ &= \boxed{} \cdot 6 \\ &= \boxed{} \text{ yd}^2 \end{aligned}$$



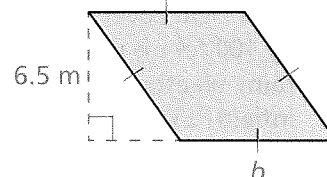
$$\begin{aligned} A &= b \cdot h \\ &= \boxed{} \cdot \boxed{} \\ &= \boxed{} \text{ m}^2 \end{aligned}$$



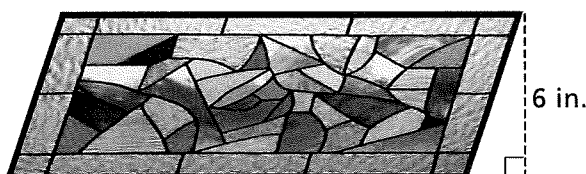
12. The area of the parallelogram is 132 in.^2 . What is the height of the parallelogram?



13. The area of the rhombus is 52 m^2 . What is the base of the rhombus?



14. Micah and Jason made parallelogram-shaped stained glass windows with the same area. The height of Micah's window is 9 inches, and its base is 10 inches. The height of Jason's window is 6 inches. What is the base of Jason's window?



15. A rectangle has a length of 8 m and a width of 4.5 m. A parallelogram has a length of 6 m. The area of the parallelogram is twice the area of the rectangle. What is the height of the parallelogram?

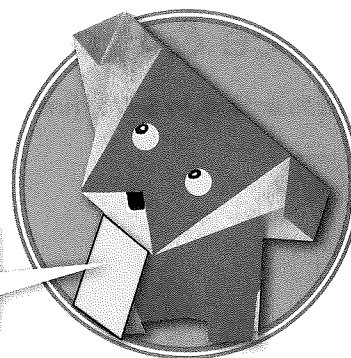


In 16 and 17, use the picture at the right.

16. Hilary made an origami dog. What is the area of the parallelogram that is highlighted in the origami figure?

17. A type of origami paper comes in 15 cm by 15 cm square sheets. Hilary used two sheets to make the origami dog. What is the total area of the origami paper that Hilary used to make the dog?

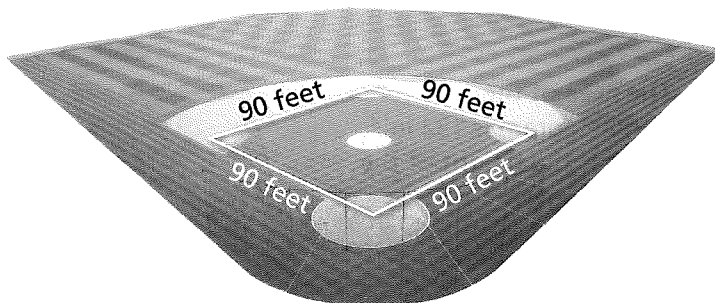
$b = 4 \text{ cm}$
 $h = 2.36 \text{ cm}$



18. **Reasoning** A rectangle and a parallelogram have the same base and the same height. How are their areas related? Provide an example to justify your answer.

19. Soshi's rhombus has a base of 12 in. and a height of 10 in. Jack's rhombus has base and height measures that are double those of Soshi's rhombus. Compare the area of Jack's rhombus to the area of Soshi's rhombus. Explain.

20. **Higher Order Thinking** The infield of a baseball diamond is in the shape of a rhombus. An infield cover with dimensions of 85 feet by 100 feet is used to protect the field during rainy weather. Will the cover protect the entire infield? Explain.



Assessment Practice

21. The parking space shown at the right has an area of 209 ft^2 . A custom truck has rectangular dimensions of 13.5 ft by 8.5 ft. Can the truck fit in the parking space? Justify your answer.

