

**LESSON**  
**20.1****Leveled Problem Solving**  
**Area of a Parallelogram**

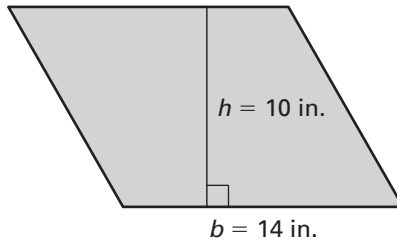
For use with pages 530–536

**Solve.**

1. Natalia is calculating the areas of parallelograms using the following formula:  $Area = bh$ , where  $b$  represents the base of the parallelogram and  $h$  represents the corresponding height. For her next parallelogram,  $b = 8$  m and  $h = 4$  m. What is the area?

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2. Natalia's friend gives her the parallelogram shown below. Using her formula,  $Area = bh$ , what area can she calculate for this parallelogram?



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3. Marco's family has a garden shaped like a parallelogram. The height of the parallelogram is 7 feet and its base is 14 feet. What is the area of the garden?

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4. Brianna won a parallelogram-shaped trophy. She knows the area of a parallelogram is  $735 \text{ cm}^2$  and that its base is 35 cm. What is the trophy's height?

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5. Maya has a piece of fabric in the shape of a parallelogram. Its height is 12 feet and its base is 18 feet. She cuts the fabric into four equal parallelograms by cutting the base and the height in half. What is the area of each new parallelogram?

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6. Maria's classroom is shaped like a parallelogram. The height of the parallelogram is  $x$  meters and the corresponding base is 7 meters longer than the parallelogram's height. How can Maria write an expression that shows her classroom's area in terms of  $x$ ?

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