Name

Class

 Date

4.7 Areas of Parallelograms and Triangles

**Find the area of each parallelogram.**

**Find the value of *h* for each parallelogram.**

**Find the area of each triangle.**

 **1. 2. 3.**

**4. 5. 6.**

**7. 8. 9.**

**10. 11. 12.**



**13. 14. 15.**

**16. Algebra** In a parallelogram, a base, *b,* and its corresponding height, *h,* are in the ratio of 5 : 3. The area is 135 mm2. Find *b* and *h.*

**17. Reasoning** A triangle has an area of 18 ft2. List all the possible positive integers that could represent its base and height.

**18.** A company wants to paint its logo on the side of a building. The entire area needs to be covered with a primer. The two triangular areas will be painted red, the rectangle containing the company’s name will be white, and the rest of the parallelogram will be yellow.

**a.** Find the area for each different color.

**b.** Find the area that must be painted with primer.

**19.** A scale drawing of the side view of a house is shown at the right. Find the total area (in square inches) of the side of the house in the drawing.

**Coordinate Geometry Find the area and perimeter of a polygon with the given vertices.**

**20.** *A*(2, 2), *B*(5, 2), *C*(3, −1), *D*(0, −1)

**21.** *A*(1, 4), *B*(−2, −2), *C*(−7, −2), *D*(−4, 4)

**Find the area of each figure.**

** 22. 23. 24.**

**25.** A parallelogram has sides 24 m and 5 m. The height corresponding to a 24-m base is 4 m. What it the height corresponding to a 5-m base?