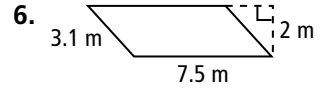
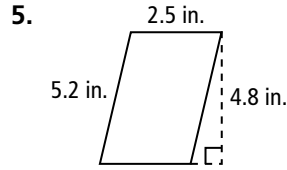
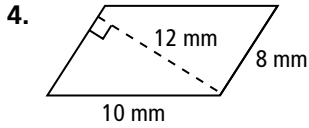
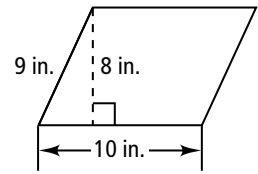
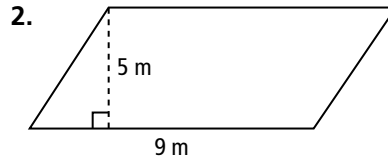
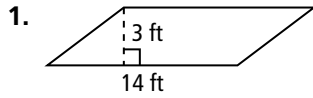


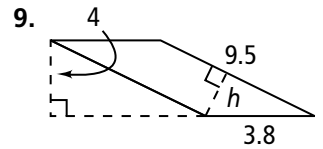
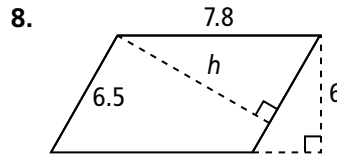
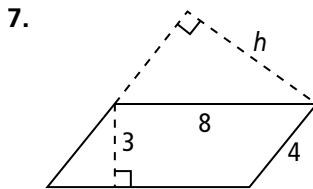
9.2

Areas of Parallelograms and Triangles

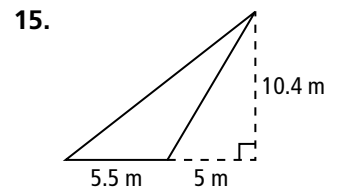
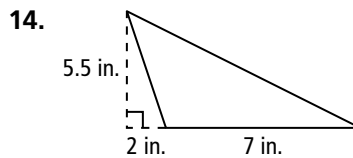
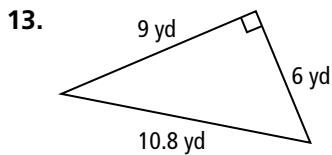
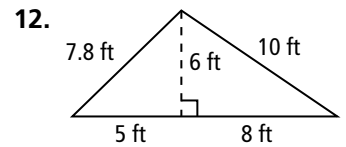
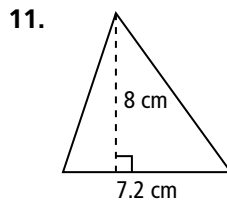
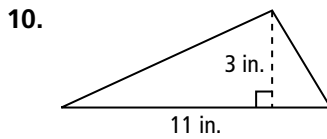
Find the area of each parallelogram.



Find the value of  $h$  for each parallelogram.

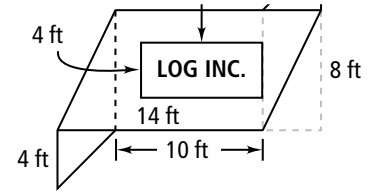


Find the area of each triangle.



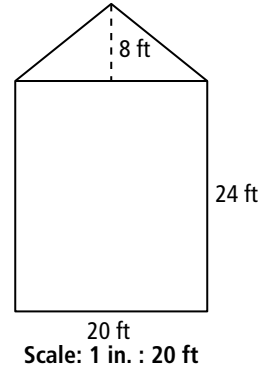
16. **Algebra** In a parallelogram, a base,  $b$ , and its corresponding height,  $h$ , are in the ratio of  $5 : 3$ . The area is  $135 \text{ mm}^2$ . Find  $b$  and  $h$ .

...blanking. 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.



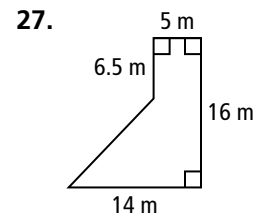
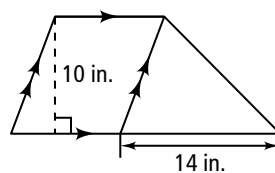
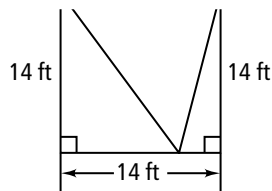
- a. Find the area for each different color.
- b. Find the area that must be painted with primer.

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.



20. **Open-Ended** Using graph paper, draw a figure with area  $42 \text{ units}^2$  made up of a parallelogram and a triangle.

th the



28. **Reasoning** A parallelogram has a height of 6 units and a corresponding base of 7 units. What is the area of each triangle formed when one diagonal of the parallelogram is drawn? What is the area of each small triangle formed when two diagonals are drawn?

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