Practice and Problem Solving

3.
$$A = \frac{1}{2}bh$$

= $\frac{1}{2}(3)(4)$
= $\frac{1}{2}(12)$
= 6

The area of the triangle is 6 square centimeters.

4.
$$A = \frac{1}{2}bh$$

= $\frac{1}{2}(16)(5)$
= $\frac{1}{2}(80)$
= 40

The area of the triangle is 40 square feet.

5.
$$A = \frac{1}{2}bh$$

= $\frac{1}{2}(60)(54)$
= $\frac{1}{2}(3240)$
= 1620

The area of the triangle is 1620 square inches.

6.
$$A = \frac{1}{2}bh$$

= $\frac{1}{2}(14)(22)$
= $\frac{1}{2}(308)$
= 154

1

The area of the triangle is 154 square yards.

7.
$$A = \frac{1}{2}bh$$

= $\frac{1}{2}(30)(75)$
= $\frac{1}{2}(2250)$
= 1125

The area of the triangle is 1125 square centimeters.

8.
$$A = \frac{1}{2}bh$$

= $\frac{1}{2}(33)(8)$
= $\frac{1}{2}(264)$
= 132

The area of the triangle is 132 square meters.

9. The side length 13 meters was used instead of the height.

$$A = \frac{1}{2}(10)(12)$$

= 60 m²

10. Use the formula for the area of a triangle to estimate the area of the cottonwood leaf.

$$A = \frac{1}{2}bh$$
$$= \frac{1}{2}(4)(5)$$

The area of the cottonwood leaf is about 10 square inches.

11.
$$A = \frac{1}{2}bh$$

= $\frac{1}{2}(36)(18)$
= 324

The area of the shelf is 324 square centimeters.

12.
$$A = \frac{1}{2}bh$$

 $= \frac{1}{2}(17)(8)$
 $= 68$

The area of the triangle is 68 square meters.

13.
$$A = \frac{1}{2}bh$$

 $= \frac{1}{2}(20)(9)$
 $= 90$

The area of the triangle is 90 square miles.

14.
$$A = \frac{1}{2}bh$$

 $= \frac{1}{2}(18)(21)$
 $= 189$

The area of the triangle is 189 square millimeters.

