

Practice 7-7

Transforming Formulas

Use this information to answer Exercises 1–4: Shopping City has a 6% sales tax.

1. Solve the formula $c = 1.06p$ for p , where c is the cost of an item at Shopping City, including tax, and p is the selling price.

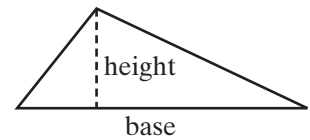
2. Clara spent \$37.10 on a pair of pants at Shopping City. What was the selling price of the pants?

3. Manuel spent \$10.59 on a basketball at Shopping City. What was the selling price of the ball?

4. Clara and Manuel's parents spent \$165.84 on groceries at Shopping City. How much of that amount was sales tax?

Transform the formulas.

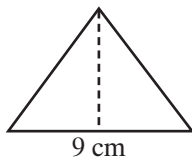
5. The area of a triangle A can be found with the formula $A = \frac{1}{2}bh$ where b is the length of the base of the triangle and h is the height of the triangle. Solve the formula for h .



6. Solve the formula $A = \frac{1}{2}bh$ for b .

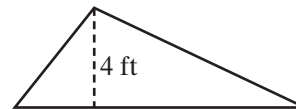
Find the missing part of each triangle.

7. $A = 27 \text{ cm}^2$



$h =$ _____

8. $A = 18 \text{ ft}^2$



$b =$ _____

Solve for the variable indicated.

9. $V = \frac{1}{3}lwh$, for w

10. $\frac{1}{a} + \frac{1}{b} = \frac{1}{c}$, for c
