

NAME \_\_\_\_\_ DATE \_\_\_\_\_ PER. \_\_\_\_\_

**LITERAL EQUATIONS**

Solve each equation for the indicated variable.

1. $r =$ _____	Solve for 'r': $A = P(1 + rt)$
2. $t =$ _____	Solve for 't': $2s = n(a + t)$
3. $v =$ _____	Solve for 'v': $D = \frac{m}{v}$
4. $B =$ _____	Solve for 'B': $A = \frac{1}{3}Bh$
5. $A =$ _____	Solve for 'A': $K = \frac{AP}{2}$
6. $m =$ _____	Solve for 'm': $KE = \frac{mv^2}{2}$

7. $m =$ _____	Solve for 'm': $y = mx + b$
8. $y =$ _____	Solve for 'y': $2x + 3y = 6$
9. $F =$ _____	<p>Shoe sizes and foot length are related by the formula <math>S = 3F - 24</math>, where <math>S</math> represents the shoe size and <math>F</math> represents the length of the foot, in inches.</p> <p>Write the formula for <math>F</math> as a function of shoe size.</p>
10. $F =$ _____	Using the formula in #9, find the length of a foot in inches that has a shoe size of 9.
11. _____	Write an expression for the area of an equilateral triangle as a function of the length of one of its sides.

12. _____	Write an expression for the area of a circle as a function of its diameter.
13. _____	If the area of the base of a cone is $25\pi$ square units, express the volume of the cone as a function of its height.

**Review.**

14. _____	If $f(x) = -x^2 + 2x - 5$ , then find $f(3)$ .
15. _____	If $g(x) = 5x + 3$ , then find $g(-7)$ .
16. _____	Given $f(x) = 2x + 1$ and $g(x) = x^2 - x + 2$ , find $g(2x)$ .