

NAME: _____

Algebra
Quiz 2
“Working with Formulas and Algebraic Expressions”

For problems 1 - 4, evaluate (calculate) the given expression.

1.) $\frac{35-3^2}{(10-6)^2} =$

2.) $\sqrt{\frac{5(6)^2}{3}} =$

3.) $21-2\sqrt{5} =$

4.) $\frac{4.4^3}{3} + 5 =$

5.) Evaluate $3x + 7$ when $x = -4$

6.) Evaluate $5x + 6(x + 1)$ when $x = 3$

7.) Evaluate $\frac{2(x+4)}{3(x-6)}$ when $x = 10$

8.) Evaluate $\sqrt{x^2 + y^2}$ when $x = 3$ and $y = 5$

9.) The simple interest formula is $I = PRT$. If you invest \$350 at 4.5% interest for 3 years, how much interest will you earn?

10.) Determine the diameter of a circle which has an area of 395 square feet. Use the formula:

$$d = \sqrt{\frac{4A}{\pi}}$$