Name _____ Date _____ Score _____

QUIZ 2 *Algebra 1*

Sections 1.3–1.4 *–10 each*

Write the letter of the correct choice in the blank.

a 1. Which of the following correctly translates "one fourth of a number"?

a. $\frac{1}{4}x$ **c.** $x + \frac{1}{4}$

b. $4x$ **d.** $x - \frac{1}{4}$

b 2. Which of the following correctly translates "quotient"?

a. addition **c.** multiplication
b. division **d.** subtraction

c 3. The answer to a word problem should always include which of the following?

a. decimals **c.** units
b. exponents **d.** variables

Rewrite each phrase using the commutative properties.

$y + x$ 4. $x + y$

zy^2 5. y^2z

Express each statement as an algebraic equation.

$8 + 5x = 24$ 6. Eight increased by 5 times a number is 24.

$\frac{2}{3}x = 89$ 7. Two thirds of a number is 89.

Evaluate each of the following, using the given values. Show your work.

\$120 8. $i = prt$; $p = \$2{,}000$, $r = 3\%$, and $t = 2$ yr.

$i = (2{,}000)(.03)(2) = (4{,}000)(.03) = \$120$

240 mi. 9. $d = rt$; $r = 60$ mph and $t = 4$ hr.

$d = (60)(4) = 240$ mi.

12 10. $5a + 3b - c$; $a = 2$, $b = 4$, and $c = 10$

$5(2) + 3(4) - (10) = 10 + 12 - 10 = 12$

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