Evaluating Expressions Practice

Name: _____   Date: _____

Question 1

Evaluate the expressions

I. $x + y$ $x = 36$ $y = 29$

II. $5 \cdot a \cdot b$ $a = 3$ $b = 2$

III. $\dfrac{x + y}{4}$ $x = 2$ $y = 12$

IV. $t + 8$ $t = 8$

V. m / n $m = 49$ $n = 7$

VI. $11 * r$ $r = 20$

VII. $12 - c$ $c = 12$

VIII. $17 - d + e$ $d = 7$ $e = 4$

IX. $w - 35$ $w = 40$

X. $(3 - x) * y$ $x = 14$ $y = 9$

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XI. $15 - 2 \cdot x + 3$ $x = 5$

XII. $$\frac{12(x - 7) + 4 \cdot 5}{2^4 + 3^2}$$ $x = 9$

Question 2
Simplify using the Distributive Law

I. $5x - 9 + 2(4x + 5)$

II. $7x^2 + 3(x^2 + 2x) - 5x$

III. $-(3x + 2y + 4)$

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Name: **Key**   Date:

Question 1

Evaluate the expressions

I. $x + y$ $x = 36$ $y = 29$

    $36 + 29 = 65$

II. $5 \cdot a \cdot b$ $a = 3$ $b = 2$

    $5 \cdot 3 \cdot 2 = 30$

III. $\dfrac{x + y}{4}$ $x = 2$ $y = 12$

    $\dfrac{2 + 12}{4} = \dfrac{7}{2}$

IV. $t + 8$ $t = 8$

    $8 + 8 = 16$

V. $m \,/\, n$ $m = 49$ $n = 7$

    $49 \,/\, 7 = 7$

VI. $11 * r$ $r = 20$

    $11 * 20 = 220$

VII. $12 - c$ $c = 12$

    $12 - 12 = 0$

VIII. $17 - d + e$ $d = 7$ $e = 4$

    $17 - 7 + 4 = 14$

IX. $w - 35$ $w = 40$

    $40 - 35 = 5$

X. $(3 - x) * y$ $x = 14$ $y = 9$

    $(3 - 14) * 9 = -99$

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XI. $15 - 2 \cdot x + 3$ $x = 5$

$15 - 2 \cdot 5 + 3 = 8$

XII. $\dfrac{12(x - 7) + 4 \cdot 5}{2^4 + 3^2}$ $x = 9$

$\dfrac{12(9 - 7) + 4 \cdot 5}{2^4 + 3^2} = \dfrac{44}{25}$

Question 2
Simplify using the Distributive Law

I. $5x - 9 + 2(4x + 5)$

$5x - 9 + 2(4x + 5) \longrightarrow 5x - 9 + 8x + 10 \longrightarrow 5x + 8x - 9 + 10 \longrightarrow 13x + 1$

II. $7x^2 + 3(x^2 + 2x) - 5x$

$7x^2 + 3(x^2 + 2x) - 5x \longrightarrow 7x^2 + 3x^2 + 6x - 5x \longrightarrow 10x^2 + 1x$

III. $-(3x + 2y + 4)$

$-(3x + 2y + 4) \longrightarrow -3x + -2y + -4$