

Evaluating Expressions Practice

Name: _____

Date: _____

Question 1

Evaluate the expressions

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

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

II. $5ab$ $a = 3$ $b = 2$

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

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

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

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

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

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

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

Evaluating Expressions Practice

Name: _____ **Key** _____

Date: _____

Question 1

Evaluate the expressions

I. $x + y$ $x = 36$ $y = 29$
 $36 + 29 = 65$

VI. $11 * r$ $r = 20$
 $11 * 20 = 220$

II. $5ab$ $a = 3$ $b = 2$
 $5 \cdot 3 \cdot 2 = 30$

VII. $12 - c$ $c = 12$
 $12 - 12 = 0$

III. $\frac{x + y}{4}$ $x = 2$ $y = 12$
 $\frac{2 + 12}{4} = \frac{7}{2}$

VIII. $17 - d + e$ $d = 7$ $e = 4$
 $17 - 7 + 4 = 14$

IV. $t + 8$ $t = 8$
 $8 + 8 = 16$

IX. $w - 35$ $w = 40$
 $40 - 35 = 5$

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

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

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

Question 2

Simplify using the Distributive Law

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

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

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

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

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

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