



MAth on the Fly!



NAME: _____

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Evaluating Expressions

Plug in the values and find the answer to each expression below.

1.

Evaluate $ab + c^3$

$$a = 8, b = 3, c = 5$$

2.

Evaluate $n^2 - 5m$

$$m = 7, n = 9$$

3.

Evaluate $x^2 + 6x - 9$

$$x = 4$$

4.

Evaluate $(e - v)^8(d + z)$

$$d = 7, e = 9, v = 10, z = 8$$

5.

Evaluate $h^2 \div (g + k)$

$$g = 6, h = 12, k = 2$$

6.

Evaluate $4w - 7b$

$$b = 11, w = 23$$

7.

Evaluate $2d^3 - d + 1$

$$d = 3$$

8.

Evaluate $10ab^2c^4$

$$a = 4, b = 5, c = 2$$

9.

Evaluate $\frac{m \div e}{m + v}$

$$e = 9, m = 36, v = 6$$

10.

Evaluate $\frac{c^2 - z}{u}$

$$c = 8, u = 7, z = 1$$

11.

Evaluate $\frac{N}{8n - 3}$

$$N = 5, n = 11$$

12.

Evaluate $\frac{x}{w} + \frac{w}{x}$

$$w = 10, x = 3$$

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SOLUTIONS

$$\begin{aligned} 1. \quad & ab + c^3 \\ & (8)(3) + (5)^3 \\ & 24 + 125 \\ & \boxed{149} \end{aligned}$$

$$\begin{aligned} 2. \quad & n^2 - 5m \\ & (9)^2 - 5(7) \\ & 81 - 35 \\ & \boxed{46} \end{aligned}$$

$$\begin{aligned} 3. \quad & x^2 + 6x - 9 \\ & (4)^2 + 6(4) - 9 \\ & 16 + 24 - 9 \\ & \boxed{31} \end{aligned}$$

$$\begin{aligned} 4. \quad & (e - v)^8(d + z) \\ & (9 - 10)^8(7 + 8) \\ & (-1)^8(15) \\ & (1)(15) \\ & \boxed{15} \end{aligned}$$

$$\begin{aligned} 5. \quad & h^2 \div (g + k) \\ & (12)^2 \div (6 + 2) \\ & 144 \div (8) \\ & \boxed{18} \end{aligned}$$

$$\begin{aligned} 6. \quad & 4w - 7b \\ & 4(23) - 7(11) \\ & 92 - 77 \\ & \boxed{15} \end{aligned}$$

$$\begin{aligned} 7. \quad & 2d^3 - d + 1 \\ & 2(3)^3 - (3) + 1 \\ & 2(27) - (3) + 1 \\ & 54 - 3 + 1 \\ & \boxed{52} \end{aligned}$$

$$\begin{aligned} 8. \quad & 10ab^2c^4 \\ & 10(4)(5)^2(2)^4 \\ & 10(4)(25)(16) \\ & \boxed{16,000} \end{aligned}$$

$$\begin{aligned} 9. \quad & \frac{m \div e}{m + v} \\ & \frac{36 \div 9}{36 + 6} \\ & \frac{4}{42} = \boxed{\frac{2}{21}} \end{aligned}$$

$$\begin{aligned} 10. \quad & \frac{c^2 - z}{u} \\ & \frac{8^2 - 1}{7} \\ & \frac{63}{7} = \boxed{9} \end{aligned}$$

$$\begin{aligned} 11. \quad & \frac{N}{8n - 3} \\ & \frac{5}{8(11) - 3} \\ & \frac{5}{85} = \boxed{\frac{1}{17}} \end{aligned}$$

$$\begin{aligned} 12. \quad & \frac{x}{w} + \frac{w}{x} \\ & \frac{3}{10} + \frac{10}{3} \\ & \frac{9}{30} + \frac{100}{30} = \boxed{\frac{109}{30}} \end{aligned}$$