MA†h on the Fly!

NAME: _____   DATE: _____

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 $\dfrac{m \div e}{m + v}$

e = 9, m = 36, v = 6

10. Evaluate $\dfrac{c^2 - z}{u}$

c = 8, u = 7, z = 1

11. Evaluate $\dfrac{N}{8n - 3}$

N = 5, n = 11

12. Evaluate $\dfrac{x}{w} + \dfrac{w}{x}$

w = 10, x = 3

SOLUTIONS

1.
$ab + c^3$
$(8)(3) + (5)^3$
$24 + 125$
$\boxed{149}$

2.
$n^2 - 5m$
$(9)^2 - 5(7)$
$81 - 35$
$\boxed{46}$

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

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

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

6.
$4w - 7b$
$4(23) - 7(11)$
$92 - 77$
$\boxed{15}$

7.
$2d^3 - d + 1$
$2(3)^3 - (3) + 1$
$2(27) - (3) + 1$
$54 - 3 + 1$
$\boxed{52}$

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

9.
$$\dfrac{m \div e}{m + v}$$
$$\dfrac{36 \div 9}{36 + 6}$$
$$\dfrac{4}{42} = \boxed{\dfrac{2}{21}}$$

10.
$$\dfrac{c^2 - z}{u}$$
$$\dfrac{8^2 - 1}{7}$$
$$\dfrac{63}{7} = \boxed{9}$$

11.
$$\dfrac{N}{8n - 3}$$
$$\dfrac{5}{8(11) - 3}$$
$$\dfrac{5}{85} = \boxed{\dfrac{1}{17}}$$

12.
$$\dfrac{x}{w} + \dfrac{w}{x}$$
$$\dfrac{3}{10} + \dfrac{10}{3}$$
$$\dfrac{9}{30} + \dfrac{100}{30} = \boxed{\dfrac{109}{30}}$$