

Evaluating Algebraic Expressions Using Decimal Numbers

Evaluate each using the values given.

1) $x + \frac{z}{-4}$; use $x = 0.6$, and $z = -0.1$

2) $|x - y|$; use $x = -5$, and $y = 5.2$

3) $q(p - r)$; use $p = 2.9$, $q = -4.6$, and $r = -4.2$

4) $h - \frac{j}{j}$; use $h = 4.1$, and $j = -2.7$

5) $m + q + q$; use $m = 2.1$, and $q = 0.8$

6) $4(5 + ab)$; use $a = -3.5$, and $b = -0.8$

7) $|m| + 3p$; use $m = -4.4$, and $p = 4.8$

8) $j(h - h) + k$; use $h = 3.4$, $j = 3.4$, and $k = 1.7$

9) $\frac{-5x + 4z}{z}$; use $x = -5.2$, and $z = 5.5$

10) $\frac{5xy}{z + y}$; use $x = -1$, $y = -0.8$, and $z = 0.6$

11) $z \div x + y^2$; use $x = -1.8$, $y = 0.1$, and $z = 2.7$

12) $x - y + yz$; use $x = 1$, $y = 5.2$, and $z = -5.8$

13) $-2q \cdot p \div 2$; use $p = 0.1$, and $q = -5.2$

14) $m(-6 + m) - n + p$; use $m = -2$, $n = 4$, and $p = -0.3$

15) $q\left(\frac{|p|}{p} - r\right)$; use $p = -0.4$, $q = 3$, and $r = -3.6$

16) $\frac{z + 6}{-2 + x - x}$; use $x = 3.9$, and $z = 0.009$

17) $\frac{kk^2 + j + h}{-2}$; use $h = 5.9$, $j = -4.7$, and $k = -0.2$

18) $r^2 - (r - 5(r - p))$; use $p = 4$, and $r = -5.8$

19) $x - x(|y| + z^2)$; use $x = 3.7$, $y = 3.2$, and $z = -2.8$

20) $\frac{4p}{n^3} + 1$; use $n = -2$, and $p = -5.2$

Answers to Evaluating Algebraic Expressions Using Decimal Numbers

- | | | | |
|------------------|-----------|-------------|-------------|
| 1) 0.625 | 2) 10.2 | 3) -32.66 | 4) 3.1 |
| 5) 3.7 | 6) 31.2 | 7) 18.8 | 8) 1.7 |
| 9) 8.72727272727 | 10) -2 | 11) -1.49 | 12) -34.36 |
| 13) 0.52 | 14) 11.7 | 15) 7.8 | 16) -3.0045 |
| 17) -0.596 | 18) -9.56 | 19) -37.148 | 20) 3.6 |