

Order of Operations, Numbers Sets, & Equations

This review is NOT MANDATORY and will not be collected. You should use it if you are struggling on the Bonus Assignment #1 (Questions: 1-13)

NON-CALCULATOR

Evaluate each expression.

1) $((2)(3))(6) - \frac{18}{6}$

2) $\frac{-13 - 2}{1 - 6} + 4$

3) $-\frac{1}{5} - \left(2\frac{1}{5}\right)\left(-\frac{4}{5}\right) - -2\frac{1}{6}$

Evaluate each using the values given.

4) $q + q - 2 + 2 - r$; use $q = 2$, and $r = -3$

5) $x - (y)(x - z^2)$; use $x = 3$, $y = -4$, and $z = 3$

Name the set or sets to which each number belongs.

6) $\sqrt{72}$

7) $\sqrt{19}$

8) 0

9) $\sqrt{39}$

Solve each equation.

10) $-5 = x - 5$

11) $-15 + p = 2$

12) $13 = x + 17$

13) $4n - 8n = 0$

14) $4 - 6v = 3 + 1 + v + 7v$

15) $-3(7p + 5) - 4p = 160$

16) $\frac{569}{35} = \frac{18}{5}x + \frac{5}{4} + \frac{13}{7}x$

Solve each proportion.

17) $\frac{2}{4} = \frac{5b - 8}{10}$

18) $\frac{n + 10}{4} = \frac{2}{5}$

19) $\frac{3}{8} = \frac{2x - 9}{x}$

20) $\frac{6}{r + 2} = \frac{7}{r - 9}$

Answers to Order of Operations, Numbers Sets, & Equations (ID: 1)

1) 33

2) 7

3) $\frac{559}{150}$

4) 7

5) -21

6) I, R

7) I, R

8) W, Z, Q, R

9) I, R

10) $\{0\}$

11) $\{17\}$

12) $\{-4\}$

13) $\{0\}$

14) $\{0\}$

15) $\{-7\}$

16) $\left\{\frac{11}{4}\right\}$

17) $\{2.6\}$

18) $\{-8.4\}$

19) $\{5.54\}$

20) $\{-68\}$