

Order of Operations

Evaluate each expression.

Show all work!

1) $3 \div (6 - 3)$

2) $12 \div (5 - 3)$

3) $(1 + 6)^2$

4) $(17 - (6 - 1)) \div 2$

5) $18 \div 6 + 5 + 2$

6) $6 + 1 - (5 - 2)$

7) $6 \div (5 - (5 - 3))$

8) $4((2 - 1)^2 + 3)$

9) $4 \times 4 - (7 + 1) \div 4$

10) $4 + 15 \div (4 - (3 - 2))$

11) $2(4 + 1 - 3 \div 3)$

Evaluate each using the values given.

12) $m - p + m$; use $m = 2$, and $p = 2$

13) $y - (z - 1)$; use $y = 2$, and $z = 2$

14) $p(r + 6)$; use $p = 6$, and $r = 3$

15) $(y + x^2) \div 6 + 4 \div 4$; use $x = 2$, and $y = 2$

Solve Equations

Date _____

Period _____

Solve each equation.

Show all work!

1) $\frac{x}{4} = -14$

2) $24 = 4a$

3) $n - 11 = -5$

4) $-72 = -12k$

5) $7x + 5x = 24$

6) $0 = -x - 2x$

7) $-1 = 1 - 3v + 1$

8) $-19 = -7r + 1 - 3r$

9) $-96 = -2 + 2(1 - 8v)$

10) $7(-2 + 5x) = -294$

11) $354 = -6(-8m - 3)$

12) $-2(7p + 2) = 28 - 6p$

13) $-31 + 7x = 5(7x + 5)$

14) $-7k - 4 + 8k = -5 + k$

15) $2b + 6 = -6b + 6$

16) $1 + 2x - 2 = 7x + 9$

Absolute Value Equations

Solve each equation. Show all work!

1) $|x| = 9$

2) $|a| = 3$

3) $|n| = -3$

4) $|n| = 4$

5) $|b - 10| = 5$

6) $|b - 4| = 9$

7) $|a + 9| = 19$

8) $|-10r| = 10$

9) $|-10n| = -40$

10) $|-10 - a| = 1$

11) $-4|a - 6| = -24$

12) $|n - 5| + 7 = 18$

13) $-4|-5x| = -60$

14) $|x + 6| - 5 = 4$

15) $|a - 3| + 2 = 3$

16) $-9 + |-2 + k| = -6$

Solve Literal Equations

Date _____

Period _____

Solve each equation for the indicated variable.

Show all work!

1) $g = a - c$, for a

2) $u = x + k$, for x

3) $z = \frac{a}{m}$, for a

4) $g = \frac{c}{a}$, for a

5) $g = x + c$, for x

6) $\frac{k}{x} = v - w$, for x

7) $g = y - cx$, for x

8) $u = x + k - y$, for x

9) $g = y + \frac{c}{x}$, for x

10) $ac = rd$, for a

11) $g = \frac{c+x}{x}$, for x

12) $u = \frac{x+k}{x}$, for x

13) $a - m = az$, for a

14) $x + m = xz$, for x

15) $u = \frac{a-k}{a}$, for a

Solve Proportions

Date _____

Period _____

Solve each proportion.

Show all work!Hint: Cross Multiply

1) $\frac{3}{m} = \frac{2}{10}$

2) $\frac{4}{8} = \frac{9}{v}$

3) $\frac{2}{9} = \frac{4}{m-2}$

4) $\frac{4}{2} = \frac{x+6}{3}$

5) $\frac{2}{k-4} = \frac{10}{k}$

6) $\frac{10}{n+6} = \frac{9}{n}$

7) $\frac{x}{8} = \frac{x-2}{4}$

8) $\frac{v-4}{v} = \frac{10}{2}$

9) $\frac{x+10}{x+5} = \frac{2}{7}$

10) $\frac{x+2}{x+3} = \frac{7}{8}$

11) $\frac{b-1}{4} = \frac{b+8}{7}$

12) $\frac{4}{10} = \frac{r+10}{r-5}$