

Q1 HW 1 *ALL WORK ON LOOSELEAF*

Date _____ Period _____

Evaluate each expression.

1) $(2 + 2) \div (1 + 2 - 1)$

2) $(1 + 1) \div ((2)(1^2))$

3) $\frac{8 \cdot 2}{6 - (5 - 3)}$

4) $\frac{11 + 3 + 4}{4 - 1}$

5) $(4 + (-4) - 8) \left(\frac{(-16) + 10}{-6} \right)$

6) $(5)(2) + (2 + 7 - 8)(6)$

7) $1 + \frac{13 + 1 + 1 + 1}{2}$

8) $\frac{6 \cdot 2}{9 - 6} + \frac{3}{3}$

Solve each equation. Check your solution.

9) $4x - x = 15$

10) $5v - v = -4$

11) $-3p - 5(6 + 7p) = -8p$

12) $4x + 28 = -8(x - 8)$

13) $18 + 5m = 2(5 - 5m) - 7$

14) $9 + 5n = -3n + 5(6n - 7)$

15) $3(3x - 7) + 3(2 + 5x) = 9x + 12x$

16) $-4(-11 - 9r) = -7 - 3(1 + 6r)$

17) $-6(9 - 10n) = 6(10n + 2) + 9$

18) $-2(2b - 8) = -3(b + 2)$

Solve for the variable specified.

19) Solve $y = mx + b$ for x

Name ALL of the sets of numbers to which each number belongs.

20) (a) 5 (b) -2 (c) 0.34 (d) pi (e) $\sqrt{3}$ (f) $\sqrt{36}$