

Snow Packet: Day 1

Date _____ Period _____

Solve each equation.

1) $120 = 10m$

2) $k - 20 = -36$

3) $17 = \frac{x}{4}$

4) $18 = \frac{x}{17}$

5) $15 = 1 + k - 8k$

6) $x - 1 + 1 = 6$

7) $21 = -3r + 1 - 7r$

8) $v - 1 + 5v = -19$

9) $3 - n = -4(3 - n)$

10) $4(1 - 4x) = 8x + 28$

11) $6(-2 + 2m) + 2m = -32 + 4m$

12) $-34 - 6k = -8(1 + 4k)$

Snow Packet: Day 2

Date _____ Period _____

Solve each equation.

1) $12 = p + 5$

2) $-3 = b - 17$

3) $180 = 9p$

4) $19 + n = 25$

5) $n + 2 + 4n = 7$

6) $-7x - 8x = -15$

7) $18 = 3a + 6a$

8) $20 = -4p - 6p$

9) $6(6 - 3v) = -24 - 8v$

10) $-(x - 5) + 2x = 40 + 6x$

11) $9 + b = -7(4b + 7)$

12) $-6(x + 6) = -7x - 32$

Snow Packet: Day 3

Date _____ Period _____

Simplify. Your answer should contain only positive exponents.

1) $2a^2 \cdot 3a^3 \cdot 2a^2$

2) $2n^2 \cdot n^2$

3) $2x^3 \cdot x^3$

4) $r \cdot 3r^2$

5) $2a^3 \cdot 2a^2 \cdot (a^3)^3$

6) $x^3 \cdot (3x^2)^2$

7) $(2r^0)^3 \cdot 3r^3$

8) $(n^2)^2 \cdot n^3$

9) $\frac{3u^3v^2}{3u^3}$

10) $\frac{m^2n^3}{2m^3n^2}$

11) $\frac{ba^3}{a^3}$

12) $\frac{2n^3}{2m^0n^2}$

Simplify. Write each answer in scientific notation.

13) $(1.92 \times 10^2)(6.8 \times 10^3)$

14) $(7 \times 10^{-4})(8 \times 10^{-2})$

15) $(4.3 \times 10^6)(9.4 \times 10^6)$

Snow Packet: Day 4

Date _____ Period _____

Find each quotient.

1) $\frac{9}{10} \div -9\frac{1}{4}$

2) $\frac{-1}{3} \div \frac{9}{8}$

3) $-1 \div \frac{3}{2}$

4) $1 \div 2\frac{2}{5}$

5) $-3\frac{1}{10} \div 2$

6) $3\frac{7}{8} \div \frac{-1}{2}$

7) $\frac{-3}{2} \div 3\frac{5}{6}$

8) $-1\frac{3}{5} \div 6$

9) $\frac{3}{4} \div \frac{-7}{6}$

10) $-3\frac{1}{2} \div -2$

Evaluate each using the values given.

11) $q(p + p)$; use $p = 1$, and $q = 2$

12) $zy - z$; use $y = 5$, and $z = 2$

13) y^2x ; use $x = 5$, and $y = 2$

14) $b - (5 - a)$; use $a = 5$, and $b = 3$

15) $a^2 + b$; use $a = 3$, and $b = 1$

16) $jh \div 4$; use $h = 4$, and $j = 2$

17) y^2x ; use $x = 3$, and $y = 4$

18) $x + y - y$; use $x = 3$, and $y = 4$

19) $x - (x - y)$; use $x = 5$, and $y = 5$

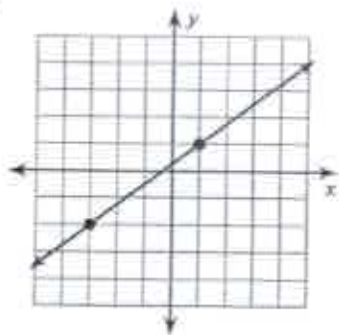
20) $y + z + z$; use $y = 2$, and $z = 6$

Snow Packet: Day 5

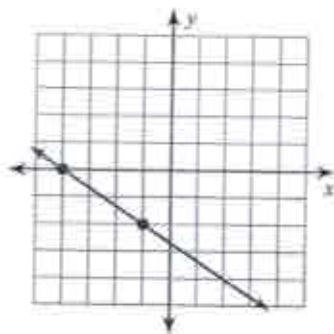
Date _____ Period _____

Find the slope of each line.

1)



2)



Find the slope of the line through each pair of points.

3) $(3, 8), (-1, -4)$

4) $(14, 18), (11, 14)$

5) $(-12, -16), (16, 15)$

6) $(1, -4), (10, 9)$

Find the slope of each line.

7) $y = 9x - 4$

8) $y = -\frac{1}{2}x - 2$

9) $y = -\frac{3}{2}x + 2$

10) $y = \frac{3}{2}x - 3$

Find the slope of a line parallel to each given line.

11) $y = \frac{8}{3}x - 3$

12) $y = -7x - 2$

13) $y = -6x - 1$

14) $y = -x - 5$

Find the slope of a line perpendicular to each given line.

15) $y = -3x + 4$

16) $y = \frac{8}{5}x - 5$

17) $y = -\frac{7}{4}x + 3$

18) $y = -2x - 1$