 Name_____

Scientific Notation

8th Grade Math: AMI Day 1

Write each number in scientific notation.

1) 0.000000786

2) 3940

5) 0.06

6) 175

Write each number in standard notation.

7) 6.17×10^{3}

8) 7×10^{4}

11) 6.7×10^{-3}

12) 9.59×10^{2}

Write each number in scientific notation.

13) 0.2×10^{6}

14) 30×10^{-8}

Simplify. Write each answer in scientific notation.

17) $(5.4 \times 10^{-1})(7 \times 10^{0})$

18) $(5 \times 10^{3})(3.5 \times 10^{-1})$

Name_____

Multi-Step Equations

8th Grade Math: AMI Day 2

Solve each equation.

1) $-20 = -4x - 6x$

2) $6 = 1 - 2n + 5$

5) $4m - 4 = 4m$

6) $p - 1 = 5p + 3p - 8$

9) $-8 = -(x + 4)$

10) $12 = -4(-6x - 3)$

13) $-18 - 6k = 6(1 + 3k)$

14) $5n + 34 = -2(1 - 7n)$

17) $-(1 + 7x) - 6(-7 - x) = 36$

18) $-3(4x + 3) + 4(6x + 1) = 43$

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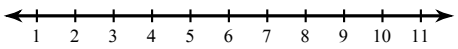
Solving Multi-Step Inequalities

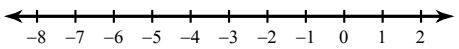
8th Grade Math: AMI Day 3

Solve each inequality and graph its solution.

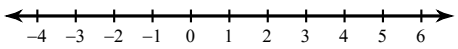
1) $-11 \geq 6 - 2n - 5$



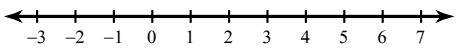
2) $0 > -5x - 6x$



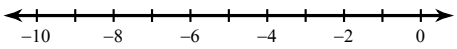
3) $x + 1 + 4 \leq 9$



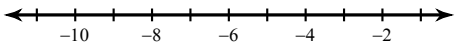
4) $-9 > -5n - 4n$



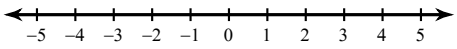
5) $5k - 2k > -9$



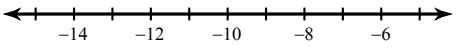
6) $-2 \geq 4p + 6 + 4$



7) $30 - 6a < -3(5 + 7a)$



8) $33 + 4x \leq -(x + 7)$



Name_____

Properties of Exponents

8th Grade Math: AMI Day 4

Simplify. Your answer should contain only positive exponents.

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

2) $m^4 \cdot 2m^{-3}$

5) $2k^4 \cdot 4k$

6) $2x^3y^{-3} \cdot 2x^{-1}y^3$

9) $4a^3b^2 \cdot 3a^{-4}b^{-3}$

10) $x^2y^{-4} \cdot x^3y^2$

13) $(4r^0)^4$

14) $(4a^3)^2$

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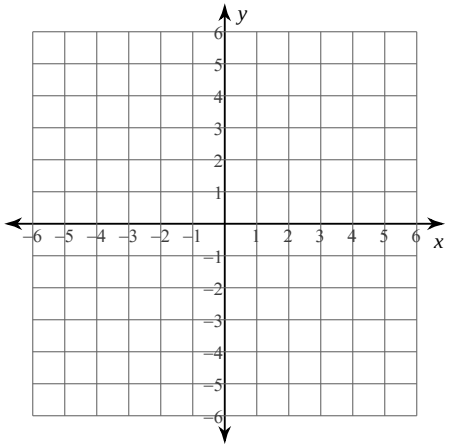
Graphing Lines

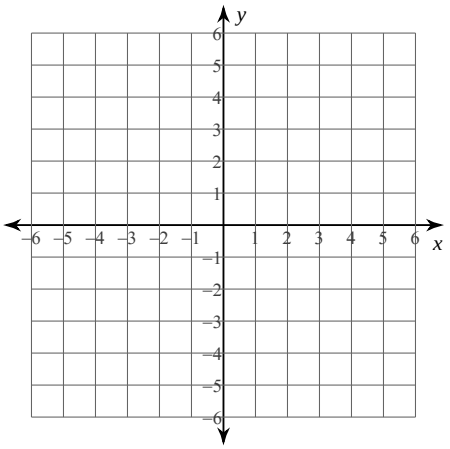
8th Grade Math: AMI Day 5

Sketch the graph of each line.

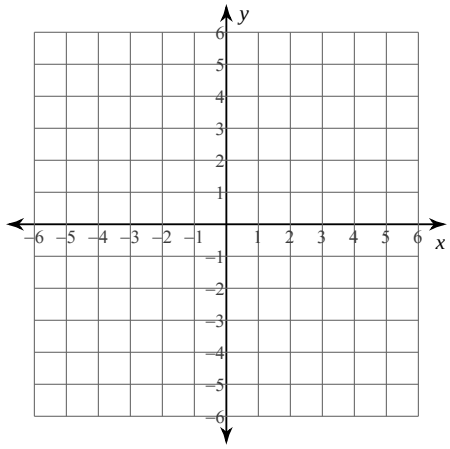
1) $y = \frac{7}{2}x - 2$



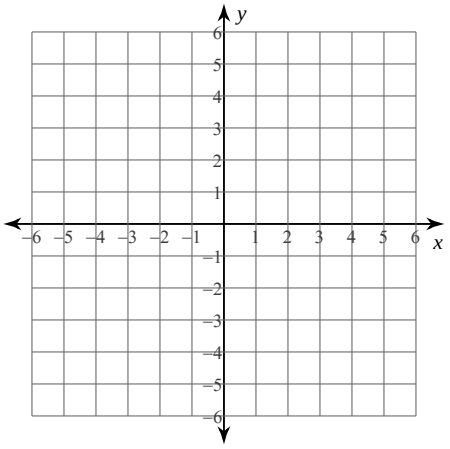
2) $y = -6x + 3$



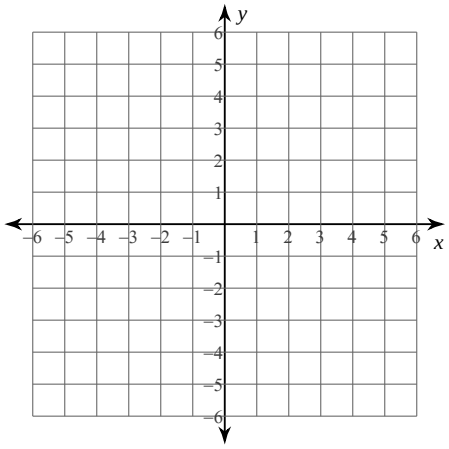
3) $y = -5$



4) $y = \frac{6}{5}x + 1$



5) $y = \frac{1}{4}x + 2$



6) $x = 5$