

# America's School of Heroes

## Middle School 137

109-15 98<sup>th</sup> Street, Ozone Park, N.Y. 11417

Tel: 1-718-659-0471 Fax: 1-718-659-4594

<http://www.heroesofms137.org>

Laura Mastrogiovanni, Principal

Assistant Principals:

Elizabeth Orsini-Fox • Mark A. Main • Zoanne Wilkins • Michael Troy • Michael Potwardski

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### 6<sup>th</sup> Grade Monthly Skills – February – Measurement Conversions

Name:

Class:

Below is your monthly assignment from Ms. Wilkins, your Math Assistant Principal. This assignment must be completed (showing all work), signed by a Parent or Guardian, and handed in to your math teacher.

#### **CONVERSIONS**

1 inch = 2.54 centimeters

1 meter = 39.37 inches

1 mile = 5,280 feet

1 mile = 1,760 yards

1 mile = 1.609 kilometers

1 kilometer = 0.62 mile

1 pound = 16 ounces

1 pound = 0.454 kilogram

1 kilogram = 2.2 pounds

1 ton = 2,000 pounds

1 cup = 8 fluid ounces

1 pint = 2 cups

1 quart = 2 pints

1 gallon = 4 quarts

1 gallon = 3.785 liters

1 liter = 0.264 gallon

1 liter = 1,000 cubic centimeters

**Use ratios and proportions and the conversions above to solve each question below. Show all work.**

- 1) How many feet are in 3, 251 yards?
  
  
  
  
  
  
  
  
  
  
- 2) When Gianna asks for 4 feet of ribbon, the clerk measures a 48-inch piece. How many inches long is a 9-foot piece of ribbon?
  
  
  
  
  
  
  
  
  
  
- 3) A vitamin tablet contains 120 milligrams of Vitamin C. How many grams of vitamin C is this?

- 4) A car travels 294 miles on a full tank of gas. The car's gas tank holds 14 gallons. How many yards per gallon can this car travel? (*Hint\* There are TWO conversions*)
  
- 5) The speed of light is approximately 3,000,000,000 meters per second. What is the speed of light in kilometers per minute? (*Hint\* There are TWO conversions*)
  
- 6) JaMarcus drank 11 eight-ounce glasses of water. How many quarts of water did he drink?
  
- 7) A cheetah can run up to 75 miles per hour. How many yards per minute is this? (*Hint\* There are TWO conversions*)
  
- 8) A quarterback threw for 60,320 yards in his career. How many miles did he throw? Give your answer to the nearest tenth.
  
- 9) Corey knows that 16 tablespoons are the same as 1 cup. He needs to measure  $\frac{3}{4}$  of a cup, but all he has is a tablespoon. How many tablespoons should Corey use?
  
- 10) A glacier moves 152 feet a year. How many inches a day does it move? Round your answer to the nearest whole number. (*Hint\* There are TWO conversions*)

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### 7<sup>th</sup> Grade Monthly Skills – February – Algebraic Expressions

Name:

Class:

Below is your monthly assignment from Ms. Wilkins, your Math Assistant Principal. This assignment must be completed (showing all work), signed by a Parent or Guardian, and handed in to your math teacher.

**Write an algebraic expression for each of the following sentences/applications below:**

- 1) 83 less than a number  $n$
  
- 2) The sum of a number,  $n$ , and three, divided by seven
  
- 3) Johanna has  $s$  yards of string. For an art project, she can cut an equal number of pieces of string if each piece is  $\frac{11}{12}$  foot long. Write an expression that represents the number of pieces she can cut.
  
- 4) A pair of pants normally costs  $p$  dollars. The pants are on sale for 15% off. Write an expression to represent the sale price of the pants.
  
- 5) Aiden is shopping for school supplies. He has \$35 to spend on a calculator and notebooks. He will buy one calculator for \$18. Let  $n$  represent the cost of one notebook. Write an expression represent the number of notebooks Aiden can buy with the \$35.

**Simplify each expression below:**

1)  $4a + 5 - a + 2$

2)  $\frac{1}{2}(2k - 28)$

3)  $2(2e + 3) - 2e + 5f + 2 - 2f$

4)  $2k + (-3m) - 6k + 2m$

5)  $4r - 3 + 6s - 8r - (4s - 6)$

6)  $16y + 8 - (5 + 9y - 2z)$

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### 8<sup>th</sup> Grade Monthly Skills – February – Linear Equations

Name:

Class:

Below is your monthly assignment from Ms. Wilkins, your Math Assistant Principal. This assignment must be completed (showing all work), signed by a Parent or Guardian, and handed in to your math teacher.

**Find the slope and y-intercept for each function represented below:**

*Work Space*

1)  $y = 35x + 25$

2)

x	0	1	2	3	4
y	6	9	12	15	18

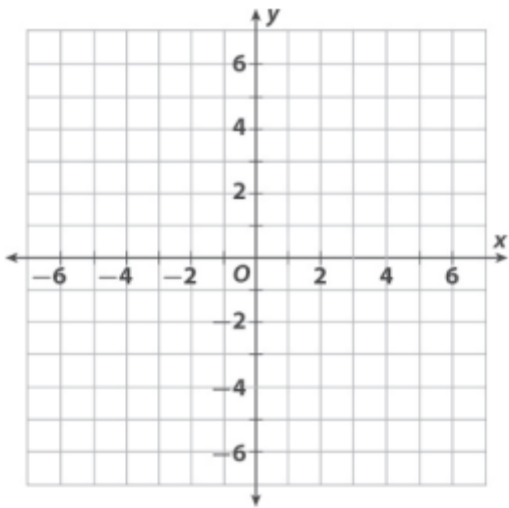
3)  $y - 3 = 0.5x$

4)

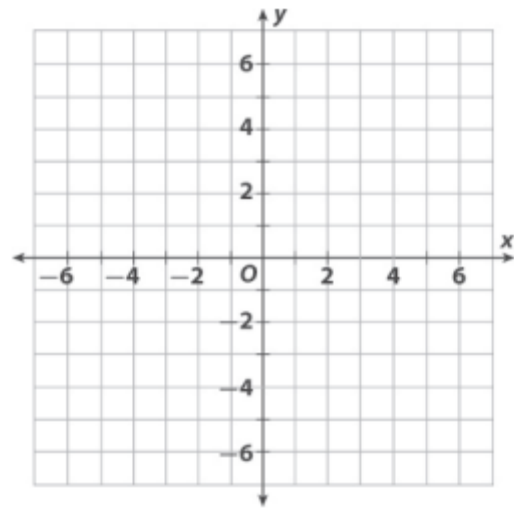
x	2	3	4	5	6
y	50	76	100	125	150

Graph each function:

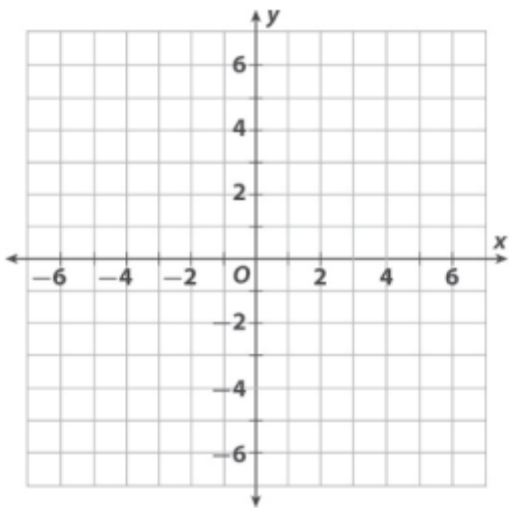
1)  $y = 2x$



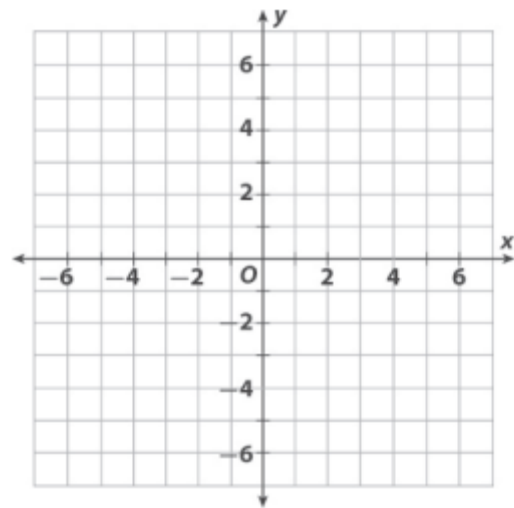
4)  $y + 5 = \frac{1}{3}x$



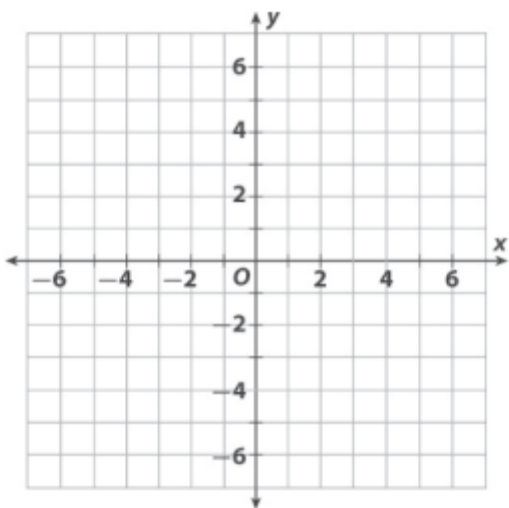
2)  $y = -\frac{1}{2}x$



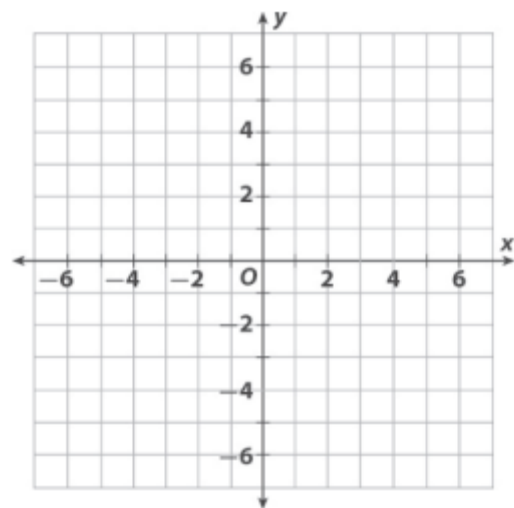
5)  $2y = x + 4$



3)  $y = 3x - 6$



6)  $3y + 9 = 2x$



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### Algebra I Monthly Skills – February – One and Two-Variable Inequalities

Name:

Class:

Below is your monthly assignment from Ms. Wilkins, your Math Assistant Principal. This assignment must be completed (showing all work), signed by a Parent or Guardian, and handed in to your math teacher.

**Solve and check each inequality:**

*Work Space*

$$7 - \frac{2}{3}x < x - 8$$

$$5(x - 1) < 3x + 10 - 8x$$

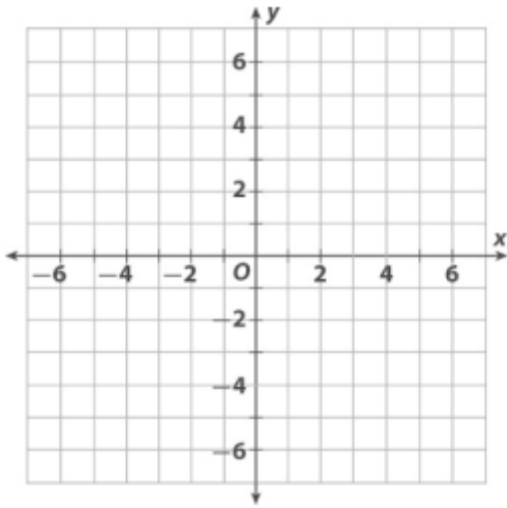
$$-8 + 4a - 12 > 2(2a + 10)$$

$$8p - 4 \leq 4(2p - 1)$$

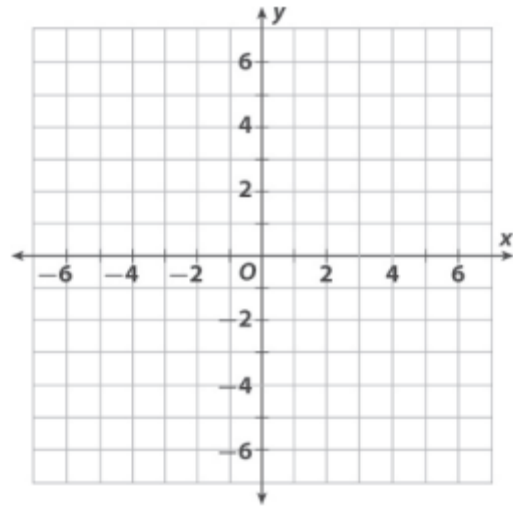
$$2(x - 4) \geq \frac{1}{2}(5 - 3x)$$

Graph each linear inequality and identify one solution to the set.

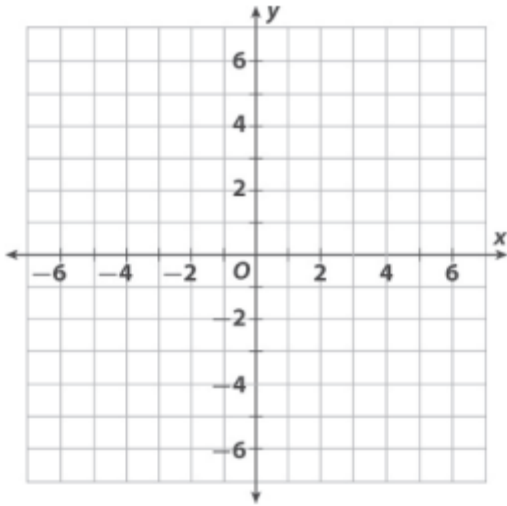
1)  $y \leq \frac{2}{5}x + 2$



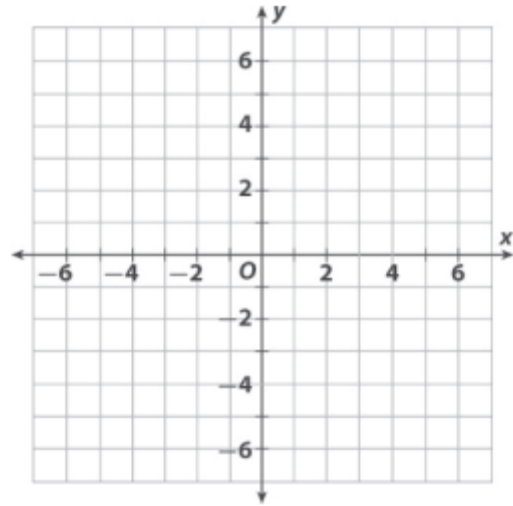
4)  $4x - 5y \leq 10$



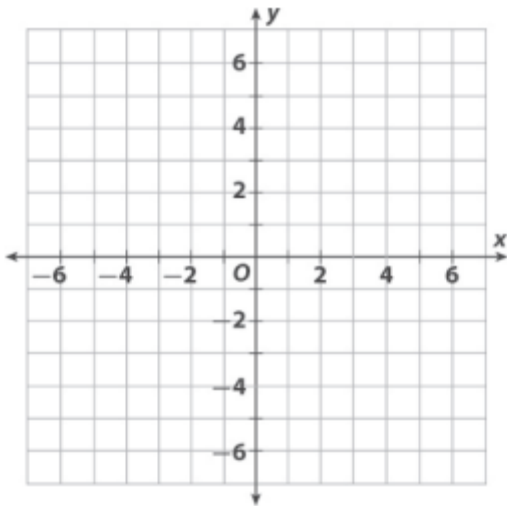
2)  $4y < 6x + 4$



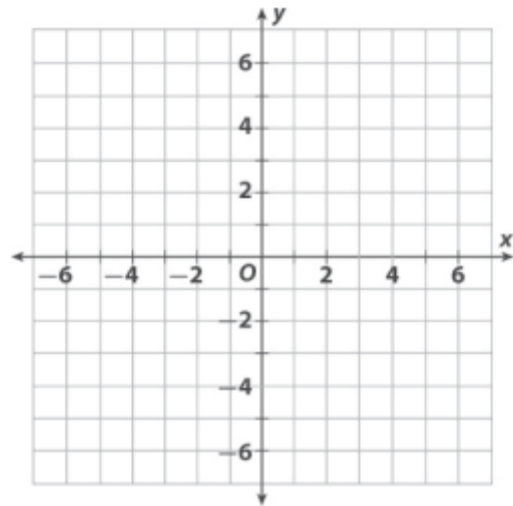
5)  $x > -3$



3)  $2y \geq -2$



6)  $4x - 4y \leq 8$



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