

Name: \_\_\_\_\_

Due: Wednesday, 11/9/16

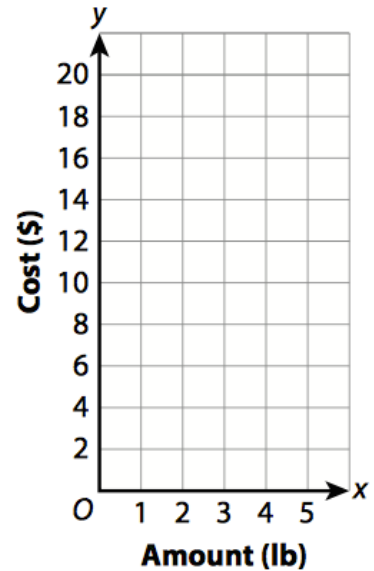
### Proportional Relationship Homework Review

1. Kroger sells ground beef and ground chuck by the pound.  
\* the cost of  $x$  pounds of ground beef is represented by the equation  $y = 2.5x$

x	y
0	
1	
2	
3	
-1	
-2	

\* the cost of 6 pounds of ground chuck is \$21.

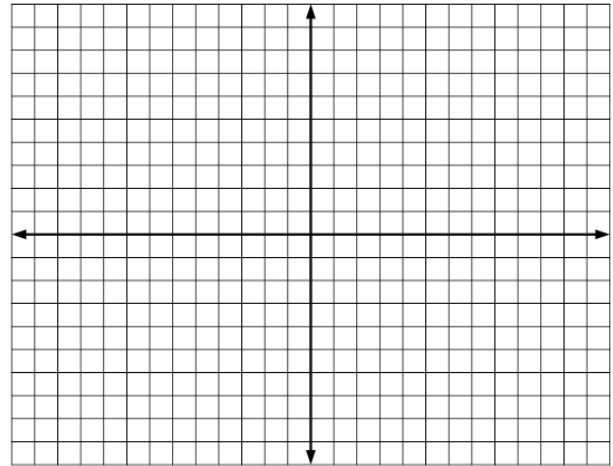
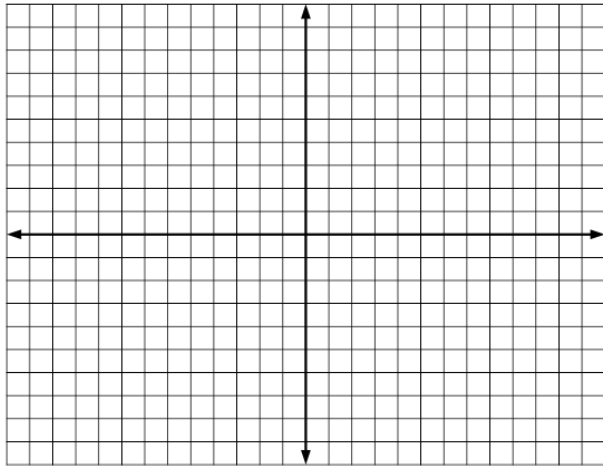
Complete the table for the equation  $y = 2.5x$  and then graph both situations on the graph



Questions 2 - 5 graph the equations using rise and run.

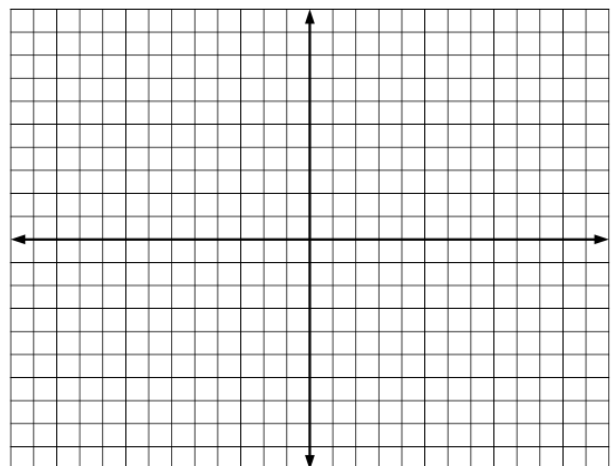
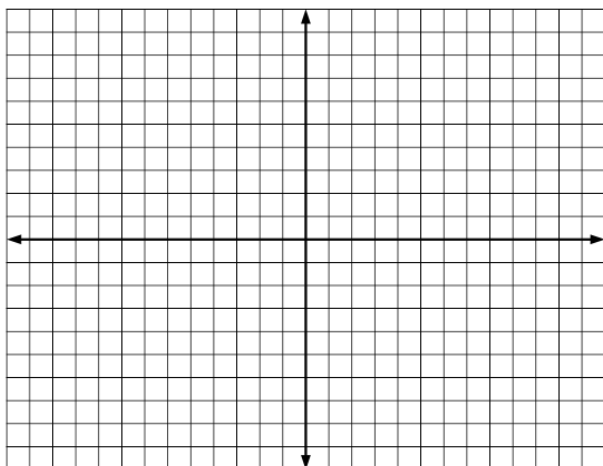
2.  $y = 2x + 3$

3.  $y = 3x - 4$



4.  $y = \frac{5}{2}x - 4$

5.  $y = \frac{2}{3}x + 2$



6. The cost  $y$  of  $x$  pounds of peanuts is represented by the equation  $y = 0.23x$ . The cost  $y$  for  $x$  pounds of pecans is represented in the table.

Pecans (oz)	3	6	9	12
Cost (dollars)	1.35	2.70	4.05	5.40

Which statement is true? Select all that apply

- a. the cost for peanuts is \$0.22 per ounce less than the cost for pecans
- b. The cost for peanuts is greater than the cost for pecans
- c. the cost for 8 ounces of peanuts is 3.60
- d. the cost for 8 ounces of pecans is 3.60
- e. a graph of the pecans cost per ounce would go through point (0, 0) and (2, 0.90)
- f. a graph of the peanuts cost per ounce would have a slope of 0.23

7. The table and the equation show the approximate speeds for a roadrunner and a coyote running at top speed. Which animal runs faster?

Roadrunner

Number of Minutes	4	8	12	16
Number of Miles	140	280	420	560

Coyote

$y = 42x$ , where  $x$  is the number of minutes and  $y$  is the number of miles

8. The price of strawberries at Fine Foods is \$7.95 for 3 pounds. At Best market, the price  $y$  for  $x$  pounds of strawberries is given by  $y = 2.9x$ . Which store sells strawberries at a higher unit price? Explain using words or math.

Use the graph to complete the following:

9. What is the slope of the line  $\overline{AC}$ ?

10. What is the slope of the line  $\overline{CD}$ ?

11. Is  $\frac{AE}{EC} = \frac{CG}{x}$   $x =$

