

ASSIGNMENT DUE TUESDAY, NOVEMBER 29, 2016

Unit 2, Chapter 1 – Ratios and Proportional Reasoning

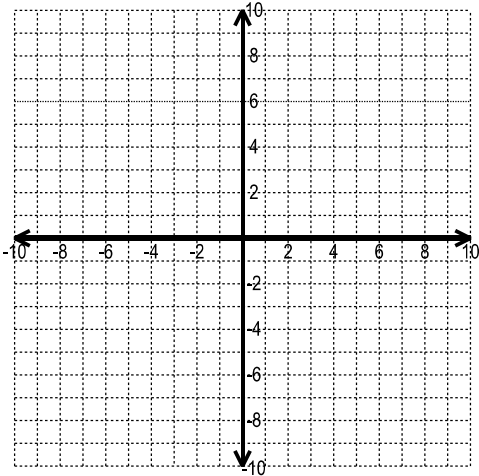
Score
/4

Week Score
/12

Stamp

1) Use the grid below to graph the proportional relationship shown in the table.

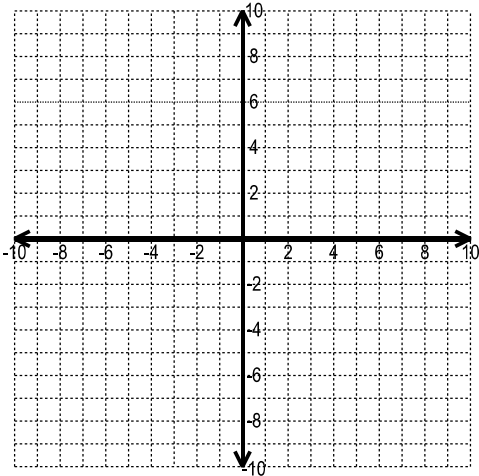
x	y
-3	-9
-2	-6
-1	-3
0	0
1	3
2	6
3	9



2) What is the rate of change of the graph above?

3) Use the grid below to graph the proportional relationship described below.

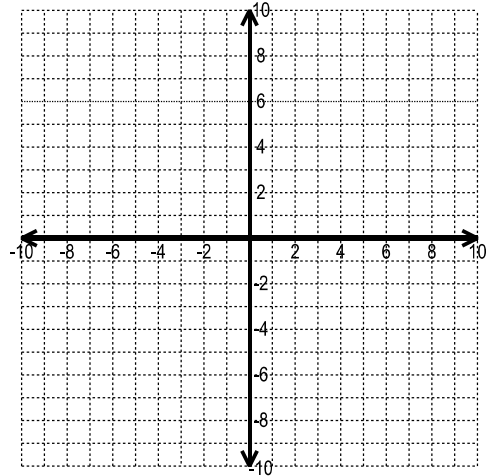
A bottle of soda costs \$2. Use the x-axis for number of bottles and the y-axis for the cost in dollars.



4) What is the rate of change of the graph you made in problem 3?

5) Use the grid below to graph the proportional relationship shown in the table.

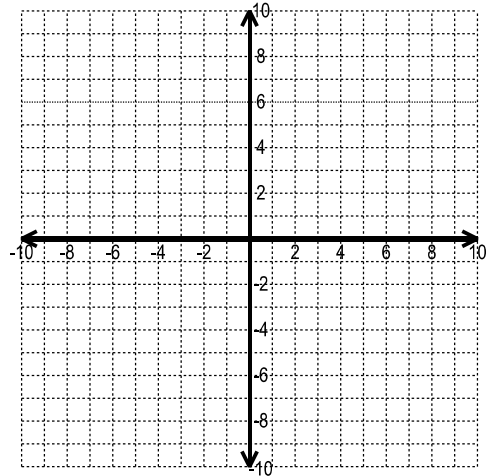
x	y
-3	6
-2	4
-1	2
0	0
1	-2
2	-4
3	-6



6) What is the rate of change of the graph above?

7) Use the grid below to graph the proportional relationship described below.

A scuba diver starts at the surface of the water and dives 1 foot per second. Use the x-axis for the number of seconds and the y-axis for the diver's position relative to sea level.



8) What is the rate of change of the graph you made in problem 7?

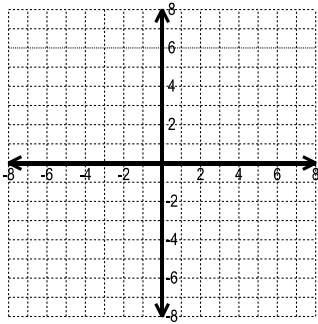
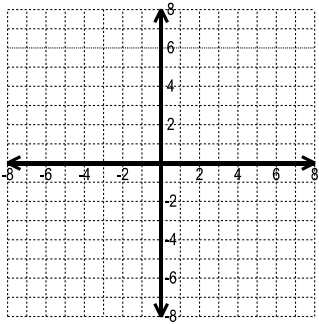
ASSIGNMENT DUE WED/THU. NOVEMBER 30/DECEMBER 1. 2016

Unit 2, Chapter 1 – Ratios and Proportional Reasoning

In each of the grids below, create a graph of a proportional relationship that has the rate of change indicated.

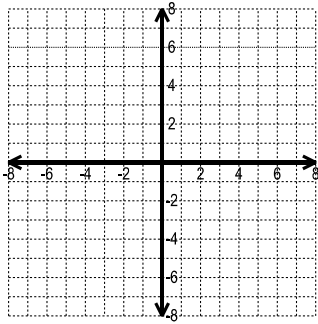
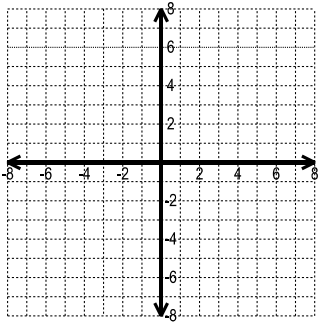
1) R.o.C. = 3

2) R.o.C = 4



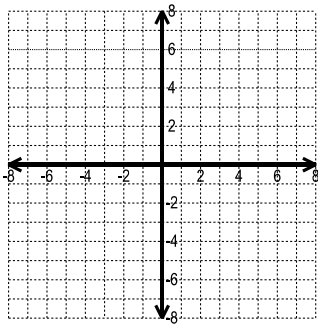
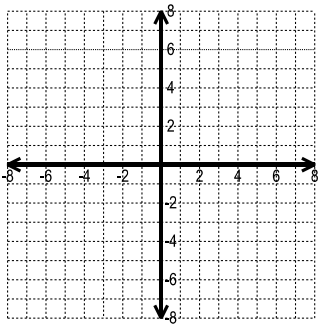
3) R.o.C. = -1

4) R.o.C = -5



5) R.o.C. = $\frac{2}{3}$

6) R.o.C = $-\frac{3}{4}$



Skills Review

For each relationship below, tell whether it is proportional or nonproportional. If it is proportional, write the common ratio.

7)

x	1	2	3	4	5	6
y	5	10	15	20	25	30

8)

x	2	3	6	7	10	12
y	4	6	12	14	20	24

9)

x	1	2	3	4	5	6
y	3	4	5	6	7	8

10)

x	3	4	5	6	7	8
y	-3	-4	-5	-6	-7	-8

11)

x	2	4	5	8	10	11
y	2	-4	5	-8	10	-11

Name: _____ Period: _____

7th Grade Math

Score

/4

Stamp

ASSIGNMENT DUE FRIDAY, DECEMBER 2, 2016

Unit 2, Chapter 1 – Ratios and Proportional Reasoning

Solve for the variable in each proportion below.

1) $\frac{x}{8} = \frac{3}{4}$

2) $\frac{m}{10} = \frac{4}{5}$

3) $\frac{y}{12} = \frac{1}{3}$

4) $\frac{10}{x} = \frac{2}{3}$

5) $\frac{15}{k} = \frac{5}{6}$

6) $\frac{1}{7} = \frac{b}{21}$

7) $\frac{4}{5} = \frac{20}{d}$

Show all work for the problems below.

8) If a store sells 3 pints of ice cream for \$6, how much will it cost to buy 5 pints of ice cream?

9) To get the right shade of green, a painter mixes 2 cans of blue paint for every 3 cans of yellow paint. If the painter has 12 cans of blue paint, how many cans of yellow paint does he need to mix with it?

10) A student works part-time as a tutor. If she earns \$27 tutoring three students, how much will she earn if she tutors five students?

11) For every left-handed person, there are about nine right-handed people. If a room contains 3 left-handed people, on average how many right-handed people will it contain?