Review

DATE:

Fill in the table below.

1.

Ratio (Fraction)	Decimal	Percent
3 5	0.6	60%
$\frac{6}{100} = \frac{3}{50}$	0.06	6%
35 = 7	0.35	35%.

Answer the following.

- 2. In Bob's closet, there are 10 shirts and 4 pants.
 - a. What is the ratio of shirts to pants?

b. What is the ratio of shirts to total items?

c. What percent of the items in the closet are

The following is proportional. Fill in the missing table, equation, and verbal.

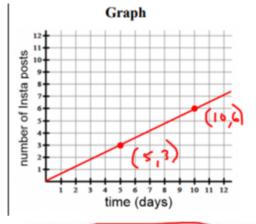
3. Verbal: Mr. Sullivan makes ______ Insta posts every ______ days.

Table

Time (days)	Insta Posts (#)
5	3
2	6=1.2
10	6
15	9

$$k = \frac{3}{5}$$

Write the equation.



For questions 4-7, use the equation $y = \frac{5}{4}x$

4. Find y when x = 8

5. Find x when y = -20

7. Is the equation proportional? YES or NO

- - 6. Fill in the table

	x	y	
	-12	-15	
	2	₹0-2.5	
	24 . 1 4.8	6	
7	-16	-20	

Mr Brust pumps in 6 gallons of water every 2 minutes.

KELLY

Mr. Kelly already has 8 gallons of water in his hot tub, he pumps in 2 gallons of water every minute.

a. Complete the tables and graph each relationship. Label your lines!

BRUST

Time (minutes)	Water (gallons)
0	0
1	3
2	6
3	٩
4	13
5	15
10	30

KELLY

Time (minutes)	Water (gallons)
0	8
1	10
2	18
3	14
4	16
5	18
10	28

Brust Kelly water (gallons) time (minutes)

b. Are the relationships proportional? Explain why or why not.

Is BRUST proportional = (Yes or No

Is KELLY proportional = Yes or No

Straight line through the origin Straight line through but does not contain the origin

c. If they are proportional, write an equation to represent the situation.

d. How much water will Mr. Brust's hot tub have in 12 minutes? Use your equation.

e. How long will it take for Mr. Brust's hot tub to have 120 gallons of water? Use your equation.

$$\frac{120 = 3x}{3}$$

$$\frac{120=3x}{3}$$
 40 minutes

f. CHALLENGE Mr. Kelly's hot tub holds a total of 2,040 gallons of water. He wants to use the tub in exactly one day from now. Will his hot tub be full? Show work to support your answer.

yes, one day is 1440 minutes, it will take 1016 minutes to fill up 2040 gallons.