

Review

Fill in the table below.

1.

Ratio (Fraction)	Decimal	Percent
$\frac{3}{5}$		
		6 %
	0.35	

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 shirts?

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

3. **Verbal:** Mr. Sullivan makes _____ Insta posts every _____ days.

Table

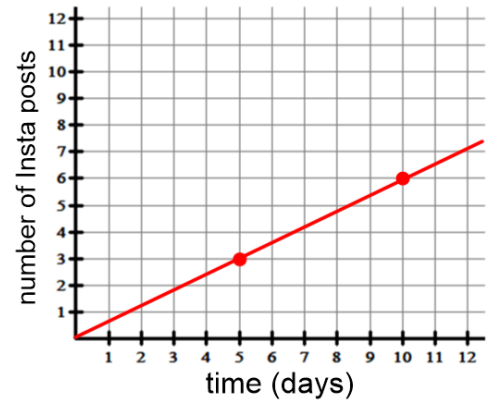
Time (days)	Insta Posts (#)
3	
5	
	8
	12

Equation

$k =$

Write the equation.

Graph



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

4. Find y when $x = 8$

5. Find x when $y = -20$

6. Fill in the table

x	y
-6	
2	
	2
	-4

7. Is the equation proportional? YES or NO

8. Mr. Brust and Mr. Kelly are filling up their hot tubs. .

BRUST

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.

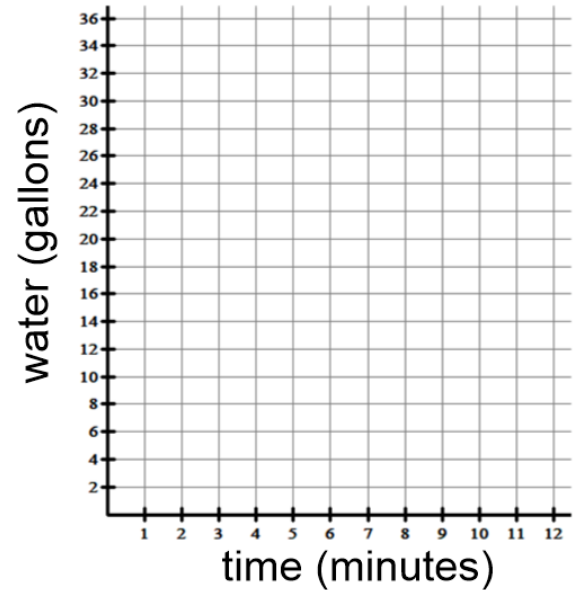
a. Complete the tables and graph each relationship. Label your lines!

BRUST

Time (minutes)	Water (gallons)
0	
1	
2	
3	
4	
5	
10	

KELLY

Time (minutes)	Water (gallons)
0	
1	
2	
3	
4	
5	
10	



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

Is BRUST proportional = Yes or No

Is KELLY proportional = Yes or No

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.

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.