

BOLDED – CALCULATOR OKAY
NOT BOLDED – DO NOT USE CALCULATOR

MONDAY

1. There are 16 bacteria in a beaker. What is the constant of proportionality in the table? Make a ratio table to solve:

time	1	2	3	4	5
# bac	16				80

2. You can buy 4 tickets for \$75 or 5 tickets for \$94. Are the costs proportional (think *is it fair*)? _____ Explain your answer:

3. Solve $\frac{x}{2} + 11 = 53$ and write down what you think or do for each step:

4. Place the following numbers on the number line:

- a) -3.64 b) $-\frac{11}{6}$ c) -1.27 d) $-3\frac{3}{5}$ e) $\frac{1}{4}$ of -12.4 f) -2.6



5. Simplify the expressions by combining like terms:

a. $6c - 2(3m + 2s) - (c + 3f) + 9m$

b. $4(2f + 3x) - 11x - 3(f + 1) + 6$

TUESDAY

1. There are 14 sticks of gum in a package. I bought some gum, 308 sticks in total. How many packages is this? Make a ratio table to solve:

packs	1				
sticks	14				308

2. You can buy 7 boxes of popcorn for \$33 or 4 boxes for \$16. Are the costs proportional (think *are the unit prices the same*)? _____ Explain your answer:

3. Solve $\frac{x}{3} - 10 = -7$ and write check your answer:

4. Solve the proportions.

a. $\frac{11}{27} = \frac{x}{9}$

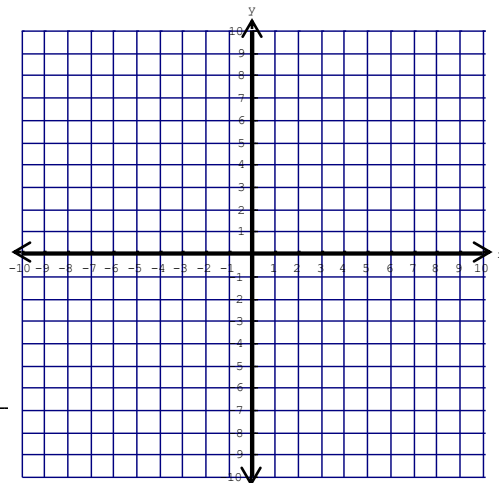
b. $\frac{5}{5x} = \frac{2}{6}$

5. Create a graph and rule based on the given table:

x	y
-2	4
-1	2
0	0
1	-2
2	-4

Rule: _____

Graph: _____



What is the constant of proportionality? _____

WEDNESDAY

1. One of the ideas that you have explored in previous courses is how to describe a set of data. One of the ways that you may have seen before is finding an average (also called a mean). Find the mean for each set of data below.

A. Jane's quiz scores: 82, 64, 73, 91, 85

B. The number of cats your teammates have as pets: 0, 1, 3, 2

C. The number of minutes Pam talked on the phone: 35, 40, 12, 16, 25, 10

2. Ace bought 8 bags of dog treats for \$23.14. How many bags did he buy for \$8.70?

3. Solve $8(x + 8) = 24$ and check your answer:

4. Write a proportion and solve: If the world was 100 people, 5 would speak English. In a room of 1,452 people, how many should speak English?