

BOLDED – CALCULATOR OKAY
NOT BOLDED – DO NOT USE CALCULATOR

Monday

1. Compute the following using mental math strategies, then check with a **calculator**.

a. What is 50% of 180?

b. What is 80% of 250?

2. Hannah's hourly wage increased from \$14.50 to \$16.25. What is the percent of change?

3. Solve each proportion.

a. $\frac{16}{48} = \frac{q}{12}$

b. $\frac{x}{10.2} = \frac{11}{12}$

4. If the radius of a circle is 15 cm., how long is the diameter? Describe the relationship between radius and diameter (use a visual too!).

Tuesday

1. Identify the population and a possible sample: The mean number of hours students at LC watch Tik Tok videos.

Population: _____

Sample: _____

2. Solve the following percent problems. Show your work!

a. 7 is 70% of what number?

b. What is 150% of 87?

3. Simplify using Order of Operations: a. $(3.3)(15 - 11)$ b. $16 \div (32) \cdot (12)$

c. $48 \div (17 - 33)$

d. $(-150) \div (-50) + (11)(-5)$

Wednesday

1. What is the first step in solving $\frac{5}{3} \cdot \frac{27}{20}$? _____ Solve it: _____

2. Solve each equation.

a. $6x - 8 = 28$

b. $-10(x - 19) = -80$

3. If possible, find the radius of a circle where the area of the circle and the circumference of the circle are equal. Is there more than one possible answer?

4. What are the two requirements for a relationship to be proportional? Explain.

Thursday

1. Find the area and circumference of the circles with the given information:

a. diameter = 10 cm.

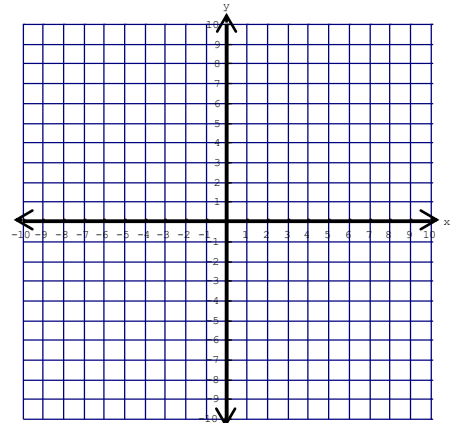
b. radius = 16 in.

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

x	y
-2	8
-1	4
0	0
1	-4
2	-8

Rule: _____

Graph:



What is the constant of proportionality? _____

3. A bicycle wheel has a diameter of 60 inches. In one turn, how far does the wheel travel in feet and inches? (*hint: 12 inches in 1 foot; 1 turn equals distance around the circle*)

4. When playing basketball, Jan makes 4 out of every 10 shots she takes.

Select **all** the statements that describe Jan's situation.

- The ratio of the number of shots Jan makes to the number of shots she takes is 2:5.
- The ratio of the number of shots Jan makes to the number of shots she does not make is 2:3.
- The equation $4x = 10y$ shows the relationship between x , the number of shots Jan makes, and y , the number of shots she takes.
- The equation $6x = 4z$ shows the relationship between x , the number of shots Jan makes, and z , the number of shots she does not make.