Name $\qquad$
Per $\qquad$ Date $\qquad$

## BOLDED - CALCULATOR OKAY

## NOT BOLDED - DO NOT USE CALCULATOR

## MONDAY

1. Does the table at right show a proportional relationship? How do you know?

| $x$ | $y$ |
| :---: | :---: |
| 0 | 0 |
| 3 | 12 |
| 6 | 24 |
| 8 | 32 |

2. Find the solution to $-10-(-30)$.
3. Ruby and her friend went to Yogurt Land. Ruby got 12 oz. of frozen yogurt and it cost her \$5.10. If her friend got 10.2 oz, how much did her friend's frozen yogurt cost? (Round to the nearest hundredth for money!) A ratio table can help you make sense of the problem.
4. Solve the equation and check your solutions by substituting your answer to prove it is correct.
a) $36=8 x-12$
b) $-3(n+1)=-12$

## TUESDAY

1. Find the sum or difference:
a) $89-97$
b) $-11-25$
c) $6-(-54)$
d) $-13+29$
2. Solve $\frac{x}{4}-10=1$ and check your answer:
3. Solve the following proportions:
a) $\frac{3.7}{x}=\frac{7.4}{6}$
b) $\frac{100}{11}=\frac{25}{x}$
4. Complete the table, then create an equation (rule) that matches the table.

| $x$ | $y$ |
| :---: | :---: |
| 0 | 0 |
| 1 | 8 |
| $?$ | 16 |
| 3 | 24 |
| 4 | $?$ |

Rule: $y=\ldots x$
5. You can buy 10 boxes of popcorn for $\$ 45$ or 5 boxes for $\$ 22.50$. Are the costs proportional (think are the unit prices the same)? Explain your reasoning.

## WEDNESDAY

1. There are 14 sticks of gum in a package. I bought 12 packages. How many sticks of gum is this? Make a ratio table to solve:

| packs | 1 |  |  | 12 |
| :---: | :---: | :--- | :--- | :--- |
| sticks | 14 |  |  |  |

2. Solve $6(x+10)=36$ and check your answer:
3. Evaluate each expression for $\mathrm{x}=-2$ and $\mathrm{y}=10$.
a) $x-y$
b) $6 x-y$
c) $-8 x+3 y$
d) $\frac{4 y}{x}$
4. Create the table and graph based on the rule: $\boldsymbol{y}=\mathbf{- 3 x}$

| $x$ | $y$ |
| :---: | :---: |
| -2 |  |
| -1 |  |
| 0 |  |
| 1 |  |
| 2 |  |


5. Cameron and her friend went to Yogurt Land. Cameron got 10 oz. of frozen yogurt and it cost her $\$ 4.00$. If her friend got 6 oz , how much did her friend's frozen yogurt cost?

## THURSDAY

1. Complete the table, then create an equation (rule) that matches the table. What is the constant of proportionality? How does the constant of proportionality relate to the equation?

| $x$ | $y$ |
| :---: | :---: |
| 0 | 0 |
| 3 | 36 |
| $?$ | 60 |
| 8 | 96 |
| 12 | $?$ |

$$
\text { Rule: } y=\ldots x
$$

2. Find the sum or difference:
a) $25-38$
b) $-7-22$
c) $8-(-56)$
d) $-15+27$
3. Maria was playing a game with her brother. She said, "I'm thinking of a number. When you multiply my number by six and add seven, you get twenty-five. What is my number?"
a) Find Maria's number. Explain how you figured out your answer to Maria's number puzzle.
4. Simplify using Order of Operations:
a) $(6-12) \div 36 \cdot 6$
b) $-(9 \cdot 5) \div(5+10)+11$
c) $32+8 \cdot 6 \div 16$
