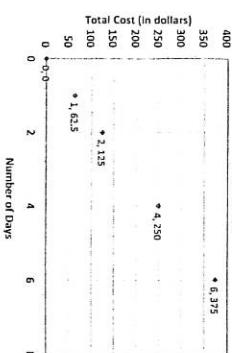


Module 1

1. Determine if the below table represents a proportional relationship. Why or why not?

x Candy Bars Sold	y Money Received (\$)
2	3
4	5
8	9
12	12

2. Determine if the below graph represents a proportional relationship. Why or why not?



No, it is not proportional
 $k = y/x$

Yes - straight line
through origin

3. A punch is mixed in a ratio of ginger ale to juice of 2 to 5.

- a. Complete the table to show different amounts that are proportional.

Amount of ginger ale	2	4	6
Amount of juice	$\frac{5}{2}$	10	15

Why are these quantities proportional?

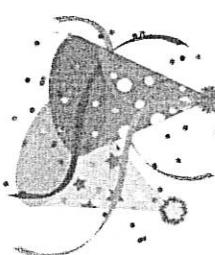
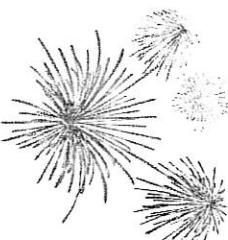
They have the same value of k

HAPPY NEW YEAR!



Mrs. Wood's
New Year's Math Booklet!

It's a new year, but I can't
forget last year's math skills!



Module 2

1. Solve.
 $3\frac{1}{5} - (-1\frac{9}{10})$

$$\frac{16}{5} + \frac{19}{10} = \frac{32}{10} + \frac{19}{10} = \frac{51}{10} = \boxed{5\frac{1}{10}}$$

2. At 5 a.m. the temperature was -14°F . In the afternoon, the temperature was 9°F . What was the change in temperature during the day?

$$\text{Final-initial} = 9 - (-14) = \boxed{23^{\circ}}$$

3. Lydia currently has a balance of $-\$15.17$ in her checking account. Her bank requires her to maintain a minimum balance of $\$20$. How much does Lydia need to deposit into her checking account to reach the minimum balance?

$$20 - (-15.17) = \boxed{35.17}$$

4. A type of bead weighs about $3/10$ ounce. If a group of these beads weigh $4\frac{1}{8}$ ounces, how many beads are in the group?

$$4\frac{1}{8} \div \frac{3}{10} = \frac{33}{8} * \frac{10}{3} = \boxed{22 \text{ beads}}$$

Module 3

1. Find the perimeter of a triangle with sides with the following lengths:
 $3a - 2c, 7c - 4$ and $5a + 8$. Express in standard form.

$$8a + 5c + 4$$

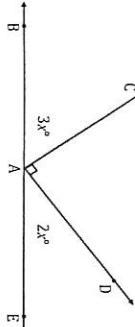
2. Solve the inequality. Graph the solution.

$$-4x + 11 < -33$$

$$-4x < -44$$

$$x > 11$$

3. Find x.



$$3x + 2x = 90$$

$$5x = 90$$

$$x = 18$$

4. Find the area of the figure. Use 3.14 for π.

