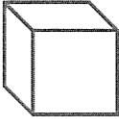


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 7TH Week One

| Problem                                                                                                                                 | Work & Answer |
|-----------------------------------------------------------------------------------------------------------------------------------------|---------------|
| In a bouquet of 24 roses, sixteen are red and the rest are pink. What is the ratio of pink to red roses?                                |               |
| Find each quotient<br>a.) $6,728 \div 16$<br>b.) $18,931 \div 83$                                                                       |               |
| How many faces, vertices and edges are on a box?<br> |               |
| Evaluate each expression if $a = 2$ , $b = 3$ and $c = 4$ .<br>a.) $2a + 4b - c$<br>b.) $6(a + c) - b$                                  |               |
| Jimmy can run 3.5 miles in 20 minutes. How far can he run in one hour and ten minutes?                                                  |               |

# Week Two

| Problem                                                                                                                                      | Work & Answer |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| A season pass to the local waterpark costs \$84. If you go to the park ten times during the season, what is the unit rate of cost per visit? |               |
| Find the LCM of the following:<br>a.) 3 and 8<br>b.) 9 and 12<br>c.) 4 and 6                                                                 |               |
| Find each product:<br>a.) $13.08 \times 0.7$ b.) $1.14 \times 0.86$                                                                          |               |
| On Thursday the high temperature was $0^{\circ}\text{C}$ . If it was three degrees colder on Friday, what was the temperature?               |               |
| Right before a snow storm the hardware store sold fifteen shovels in sixty minutes. At that rate the store sold a shovel every ____ minutes. |               |

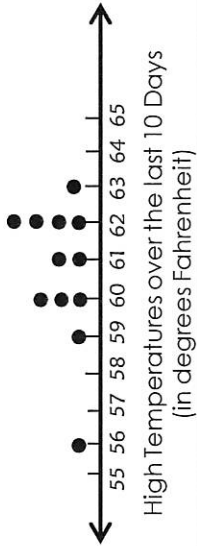
# 

| Problem                                                                                                                            | Work & Answer |
|------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Find the GCF of the following:<br>a.) 18 and 24      b.) 12 and 36<br>c.) 32 and 96                                                |               |
| Phoebe needs to use $\frac{3}{4}$ cups of sugar to make one batch of cookies. How many batches can she make with 12 cups of sugar? |               |
| Which is colder $-3^{\circ}$ or $-13^{\circ}$ ? How much colder is that degree?                                                    |               |
| Graph the ordered pairs.<br>$(-3,-1)$ $(1,-1)$ $(1,5)$                                                                             |               |
| Connect the points in the previous problem. Then find the area of the given figure.                                                |               |

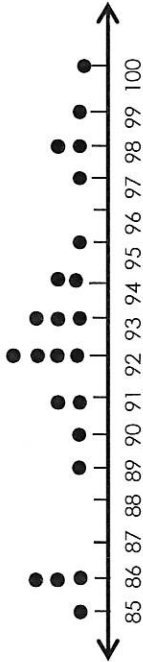
# Week Four

| Problem                                                                                                                                                                                                                                                                                                                                 | Work & Answer |       |       |          |          |      |           |   |   |   |   |   |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|-------|----------|----------|------|-----------|---|---|---|---|---|--|
| Find the value of the following:<br>a.) $2^4$ b.) $4^3$<br>c.) $6^2$                                                                                                                                                                                                                                                                    |               |       |       |          |          |      |           |   |   |   |   |   |  |
| Study the data table which shows the number of laps each student ran during the warm up for gym class, then find the mean number of laps.<br><table><tr><th>Student</th><th>Jack</th><th>Julie</th><th>Ben</th><th>Beatrice</th><th>Carl</th></tr><tr><th># of laps</th><td>4</td><td>7</td><td>6</td><td>5</td><td>8</td></tr></table> | Student       | Jack  | Julie | Ben      | Beatrice | Carl | # of laps | 4 | 7 | 6 | 5 | 8 |  |
| Student                                                                                                                                                                                                                                                                                                                                 | Jack          | Julie | Ben   | Beatrice | Carl     |      |           |   |   |   |   |   |  |
| # of laps                                                                                                                                                                                                                                                                                                                               | 4             | 7     | 6     | 5        | 8        |      |           |   |   |   |   |   |  |
| Find the absolute value of each:<br>a.) -8    b.) 8                                                                                                                                                                                                                                                                                     |               |       |       |          |          |      |           |   |   |   |   |   |  |
| Write and solve an inequality that means a number plus four is greater than or equal to twelve.                                                                                                                                                                                                                                         |               |       |       |          |          |      |           |   |   |   |   |   |  |
| A box of twelve granola bars was \$3.60. What was the unit cost per bar?                                                                                                                                                                                                                                                                |               |       |       |          |          |      |           |   |   |   |   |   |  |

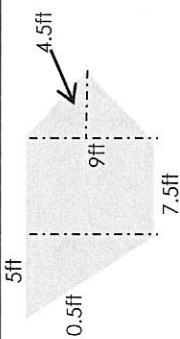
# Week Five

| Problem                                                                                                                        | Work & Answer                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Evaluate each expression<br>a.) $16 + 3^2 \times 2$<br>b.) $2^3 \div 4 + 12$                                                   |                                                                                                                                                                                           |
| Find the prime factorization of each:<br>a.) 16    b.) 72                                                                      |                                                                                                                                                                                           |
| Using the data plot in the next space, what is the outlier of the data shown?                                                  |  <p style="text-align: center;">High Temperatures over the last 10 Days<br/>(in degrees Fahrenheit)</p> |
| Solve for each variable.<br>a.) $m - 64 = 7$ b.) $3r + 2 = 35$                                                                 |                                                                                                                                                                                           |
| An aquarium's dimensions are $3\frac{1}{4}$ ft $\times$ 2ft $\times$ $1\frac{3}{4}$ ft.<br>What is the volume of the aquarium? |                                                                                                                                                                                           |

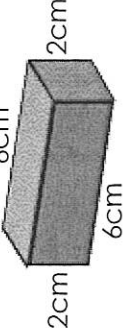
# Week Six

| Problem                                                                                                                                          | Work & Answer                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Circle the letter of the survey question that will yield more results. Explain why you choose that question.                                     | a.) What country does each participant live in?<br>b.) What town or city does each participant live in? |
| List three solutions for the inequality $x \leq 3$ and give three numbers that are not solutions.                                                | Solutions: _____<br>Not Solutions: _____                                                                |
| Circle the expression equivalent to $9x + 36$ .                                                                                                  | a.) $3(x + 9)$<br>b.) $9(x + 4)$                                                                        |
| Find the mean, median and mode of the below test scores:<br> |                                                                                                         |
| a.) What is the opposite of $-7$ ?<br>b.) How many units are $-7$ and its opposite from zero?                                                    |                                                                                                         |

# Week Seven

| Problem                                                                                                                                                                                  | Work & Answer |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <p>Which expression is equivalent to <math>56x - 28y + 42z</math>?</p> <p>a.) <math>8(7x - 3y + 6)</math>    b.) <math>7(8x + 4y + 6z)</math></p> <p>c.) <math>7(8x - 4y + 6)</math></p> |               |
| <p>Find the area of the figure.</p>                                                                   |               |
| <p>Add or subtract.</p> <p>a.) <math>523.74 + 319.281</math></p> <p>b.) <math>120.16 + 38.094</math></p> <p>c.) <math>604.11 - 57.989</math></p>                                         |               |
| <p>Anna bought a sweater at 40% off the original price. If she paid \$12, what was the original price of the sweater?</p>                                                                |               |
| <p>The area of the garden was <math>2\frac{2}{5}\text{yd}^2</math>. If the length is <math>1\frac{1}{2}\text{yd}</math>, find the width.</p>                                             |               |

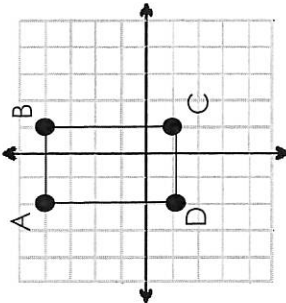
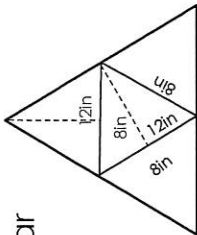
## Work & Answer

| Problem                                                                                                                                                                                      | Work & Answer                                                                                                                                                                                                                                       |                 |            |               |  |   |  |   |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------|---------------|--|---|--|---|---------|
| Find each quotient. Simplify your answer.<br><br>a.) $\frac{5}{8} \div \frac{1}{4}$ b.) $3\frac{1}{6} \div \frac{2}{3}$                                                                      |                                                                                                                                                                                                                                                     |                 |            |               |  |   |  |   |         |
| What are 3 values of x that will make the inequality true?<br><br>$3x + 9 \leq 30$                                                                                                           |                                                                                                                                                                                                                                                     |                 |            |               |  |   |  |   |         |
| Simplify the expression by using the distributive property and combining like terms.<br><br>$6(3y + 7) + 4(9 + 9y)$                                                                          |                                                                                                                                                                                                                                                     |                 |            |               |  |   |  |   |         |
| Draw a net to represent the rectangular prism below.<br>Then give the surface area of the prism.<br><br> |                                                                                                                                                                                                                                                     |                 |            |               |  |   |  |   |         |
| Anna buys 5lbs of pecans for \$19.<br>At this unit rate, find the cost of each amount in the table.                                                                                          | <table border="1"> <thead> <tr> <th>Pecans (pounds)</th> <th>Total Cost</th> </tr> </thead> <tbody> <tr> <td><math>\frac{1}{2}</math></td> <td></td> </tr> <tr> <td>3</td> <td></td> </tr> <tr> <td>5</td> <td>\$19.00</td> </tr> </tbody> </table> | Pecans (pounds) | Total Cost | $\frac{1}{2}$ |  | 3 |  | 5 | \$19.00 |
| Pecans (pounds)                                                                                                                                                                              | Total Cost                                                                                                                                                                                                                                          |                 |            |               |  |   |  |   |         |
| $\frac{1}{2}$                                                                                                                                                                                |                                                                                                                                                                                                                                                     |                 |            |               |  |   |  |   |         |
| 3                                                                                                                                                                                            |                                                                                                                                                                                                                                                     |                 |            |               |  |   |  |   |         |
| 5                                                                                                                                                                                            | \$19.00                                                                                                                                                                                                                                             |                 |            |               |  |   |  |   |         |

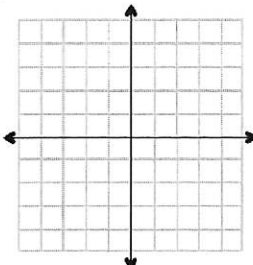
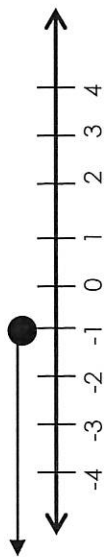




# Week Nine

| Problem                                                                                                                                                                  | Work & Answer |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <p>Write the coordinate pair for each point<sup>1</sup> on the coordinate plane.</p>  |               |
| <p>Find the area and perimeter of the shape above.</p>                                                                                                                   |               |
| <p>Find each product or quotient.</p> <p>a.) <math>5.4 \div 0.3</math>      b.) <math>8.7 \times 3.9</math></p>                                                          |               |
| <p>The area of the school garden is <math>31\frac{1}{4}</math> ft. If the width is <math>6\frac{3}{5}</math> ft, find the length.</p>                                    |               |
| <p>Find the surface area of triangular pyramid using the net.</p>                   |               |

# Week Ten

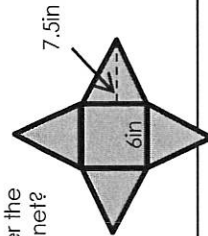
| Problem                                                                                                                                                                                                                                                                                     | Work & Answer                                                                         |              |   |    |   |  |   |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------|---|----|---|--|---|--|--|
| <p>Simplify the expression by combining like terms.</p> $14a + 5 + 8a - 3 + 16b$                                                                                                                                                                                                            |                                                                                       |              |   |    |   |  |   |  |  |
| <p>Plot the points below on the coordinate grid.</p> <p>A.) A (-3, 3) B(3, 3)</p> <p>B.) Which axis are the points reflected across?</p>                                                                                                                                                    |     |              |   |    |   |  |   |  |  |
| <p>Complete the table to find the values of <math>y</math>.</p> <table border="1"> <thead> <tr> <th><math>x</math></th><th><math>y = 3x - 2</math></th></tr> </thead> <tbody> <tr> <td>5</td><td>13</td></tr> <tr> <td>6</td><td></td></tr> <tr> <td>7</td><td></td></tr> </tbody> </table> | $x$                                                                                   | $y = 3x - 2$ | 5 | 13 | 6 |  | 7 |  |  |
| $x$                                                                                                                                                                                                                                                                                         | $y = 3x - 2$                                                                          |              |   |    |   |  |   |  |  |
| 5                                                                                                                                                                                                                                                                                           | 13                                                                                    |              |   |    |   |  |   |  |  |
| 6                                                                                                                                                                                                                                                                                           |                                                                                       |              |   |    |   |  |   |  |  |
| 7                                                                                                                                                                                                                                                                                           |                                                                                       |              |   |    |   |  |   |  |  |
| <p>Entrance to the fair is \$5 but each ticket for the rides costs <math>x</math> dollars. Write an expression to show the cost of 12 ride tickets and entrance cost.</p>                                                                                                                   |                                                                                       |              |   |    |   |  |   |  |  |
| <p>Write an inequality to show what the number line represents.</p>                                                                                                                                                                                                                         |  |              |   |    |   |  |   |  |  |

Name: \_\_\_\_\_

# 7th Grade Summer Math Quiz

Complete the following problems. Use the work page to show your work.

|                                                                                                                                          |                                                                                                                                             |                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 1.) How many faces, edges, and vertices are on a rectangular prism?                                                                      | 2.) Evaluate if $a=4$ and $b=6$ .<br>$3a - b + 2ab$                                                                                         | 3.) A 24 pack of soda costs \$6.48. What is the unit rate of cost per can?                                                        |
| 4.) The high temperature Monday was $-2^{\circ}\text{C}$ . On Tuesday it was five degrees warmer, what was the high temperature Tuesday? | 5.) Find the quotient or product.<br>a.) $27,864 \div 25$ b.) $15.96 \times 0.4$                                                            | 6.) Which survey question will yield more results? Explain.<br>a.) What school do you attend?<br>b.) What grade are you in?       |
| 7.) Write and solve an inequality that means a number plus six is less than or equal to twenty-four.                                     | 8.) What is the opposite of 4? How many units is its opposite from zero?                                                                    | 9.) Evaluate: $3^3 + 6 \times 4 - 2$                                                                                              |
| 10.) Find the GCF of 42 and 56.                                                                                                          | 11.) Find the mean of the following low temperatures: 32, 34, 31, 43, 34, 42, 43, 45, 31, 43, 36. (Round to the nearest tenth if necessary) | 12.) Rob bought a pair of jeans at 30% off the original price. If the original price was \$55, how much did he pay for the jeans? |
| 13.) Kate has enough fabric to cover $120\text{in}^2$ . Can she completely cover the shape shown by the net?                             | 14.) Find the sum: $137.96 + 28.054$                                                                                                        | 15.) Solve for r.<br>$5 + 4r = 57$                                                                                                |



Use this space to show your work (if necessary) for each problem.

|      |      |      |
|------|------|------|
| 1.)  | 2.)  | 3.)  |
| 4.)  | 5.)  | 6.)  |
| 7.)  | 8.)  | 9.)  |
| 10.) | 11.) | 12.) |
| 13.) | 14.) | 15.) |