

Hello Rising 6th Graders,

Here is your summer math packet. It is organized into weeks and there are only 5 problems to do per week so if you want to get ahead of schedule, you can. Some of the problems have "May Do" written on them. Those are optional because they are topics we did not cover, or perhaps were only mentioned in passing.

Your 6th grade math teacher, Melissa Doezema, will collect your completed packet when you return in August.

Have fun, good luck, and have a great summer!

Best,  
Damon & Banana



## Problem

## Work &amp; Answer

List the factors of each number.

a.) 24

b.) 64

Fill in the missing number.

a.)  $0.24 - .128 = \text{?}$

b.)  $94.19 + 2.6 + \underline{\text{?}} = 161.29$

Compare using  $<$ ,  $>$ , or  $=$

a.)  $0.245 \bigcirc 0.0245$

b.)  $24.500 \bigcirc 24.5$

c.)  $20.405 \bigcirc 20.45$

Write the following in expanded form:

May Do

a.) 0.234

b.) 14.78

Divide:

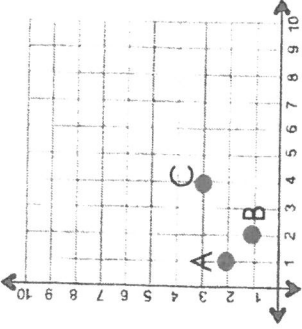
a.)  $2,936 \div 4$

b.)  $14,783 \div 12$



# Week Two



| Problem   | Work & Answer |
|---|---------------|
| <p>List the next <b>four</b> terms in the sequences with the given rule:</p> <p><i>May Do</i></p> <p>a.) Start at 0, add three</p> <p>b.) Start at 0, add six</p> <p>c.) What is the relationship between the two sequences?</p> <p>Multiply:</p> <p>a.) <math>23.5 \times 6</math></p> <p>b.) <math>2.35 \times 0.6</math></p> <p>c.) <math>235.0 \times 0.06</math></p> |               |
| <p>Name each ordered pair.</p>    |               |
| <p>Find each sum: a.) <math>\frac{1}{2} + \frac{1}{4}</math>    b.) <math>\frac{1}{4} + \frac{1}{3} + 3\frac{7}{12}</math></p>  |               |
| <p>Round each number to the nearest tenth:</p> <p>a.) 985.76    b.) 43.52    c.) 0.859    <i>May Do</i></p>   |               |


# Week Three

| Problem  | Work & Answer |
|--|---------------|
| <p>Use the order of operations to simplify each expression:</p> <p>a.) <math>(6 \times 3) + 72 \div 8 - 5 + 1</math></p> <p>b.) <math>3 \times \{[(65-49) + (42 \div 7)] \div 2\}</math></p> |               |
| <p>Order the following from least to greatest:</p> <p>0.25, 2.205, 0.502, 0.225, 2.025</p>   |               |
| <p>Find the <b>product</b> of each of the following:</p> <p>a.) <math>2.85 \times 29</math></p> <p>b.) <math>\\$1.55 \times 13</math></p> <p>c.) <math>1.2 \times 2.1</math></p>             |               |
| <p>If you bought 3 CD's each costing \$12.99, and paid with a \$50 bill. What would your change be?</p>  |               |
| <p>Order the fractions from least to greatest</p> $\frac{1}{2}, \frac{2}{3}, \frac{1}{4}, \frac{2}{5}$   |               |



# Week Four



| Problem  | Work & Answer |
|--|---------------|
| <p>to</p> <p>Round each to the nearest hundredth:</p> <p>a.) 2.359</p> <p>b.) 0.145</p> <p><i>May Do</i></p>   |               |
| <p>a.) How many feet are in 3 miles?</p> <p>b.) How many inches are in 1 yard?</p>   |               |
| <p>Create a line plot that shows the following data of the amount of rain in inches over the course of a week:</p> $\begin{array}{ccccccc} 1 & 3 & 1 & 1 & 2 & 4 & 2 \\ \frac{1}{2} & \frac{1}{4} & \frac{1}{8} & \frac{1}{4} & \frac{1}{4} & \frac{1}{8} & \frac{1}{8} \end{array}$ |               |
| <p>Find the perimeter and area of the following figure.</p>    |               |
| <p>Use the number <b>555.55</b> to complete the following:</p> <p>a.) The digit in the ones place is _____ times as much as the digit in the tenths place.</p> <p>b.) The digit in the hundredths place is _____ times as much as the digit in the tenths place.</p>                 |               |



# Week Five

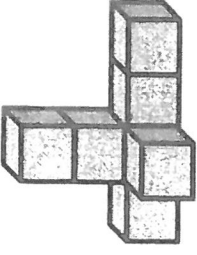


| Problem   | Work & Answer |
|---|---------------|
| Use a model to show<br>$3\frac{1}{4} \cdot \frac{1}{2}$                                     |               |
| a.) $\frac{5}{12} - \frac{1}{12}$<br>b.) $6 - \frac{3}{5}$                                  |               |
| Draw a triangle that is neither equilateral or isosceles.<br><i>May Do</i>                  |               |
| Estimate first and then solve.<br>a.) $94.71 - 62.3$ b.) $24.56 + 11.94$                    |               |
| If you tripled the number of sides of a pentagon, how many sides would the new figure have? |               |



# Week Six



| Problem  | Work & Answer |
|--|---------------|
| <p>a.) <math>\frac{4}{7} \times \frac{3}{8}</math></p> <p>b.) <math>2\frac{1}{5} \times \frac{10}{12}</math></p>   |               |
| <p>Write the following expressions:</p> <p>a.) Multiply twelve and four, then add forty-seven.</p> <p>b.) Add thirty-five to the product of eight and six.</p> |               |
| <p>An apple pie was cut into one eighth pieces. If Michael's family ate one fourth of the total pie, how slices were left? (Hint: Draw a picture)</p>          |               |
| <p>Solve the following:</p> <p>a.) <math>6.543 \times 10^2</math></p> <p>b.) <math>6.543 \times 10^3</math></p> <p>c.) Describe the pattern you see.</p>       |               |
| <p>Measure the volume by counting the unit cubes.</p>                     |               |



# Week Seven

| Problem  | Work & Answer |
|--|---------------|
| A board 8ft. 4in. long is cut into four pieces of equal length. How long is each piece?  |               |
| Write the following in standard number form:<br>a.) Three and thirty-eight hundredths<br>b.) Sixty-five and seven hundredths   |               |
| Find the unknown<br>a.) $1\frac{2}{7} - ? = \frac{6}{7}$<br>b.) $\frac{1}{2} + ? = \frac{11}{12}$  |               |
| Sam and Sally were knitting scarves for a winter clothing drive. Sam had completed $6\frac{3}{5}$ scarves while Sally had finished $8\frac{1}{4}$ scarves. How many more scarves did Sally complete? |               |
| Write the following in word form:<br>a.) 17.80<br>b.) 2.16   |               |



# Week Eight



| Problem  | Work & Answer |
|--|---------------|
| <p>Find the space inside the refrigerator that is six feet tall, three feet wide and four feet deep.</p>   |               |
| <p>Place <u>grouping symbols</u> to make the equations below true. <math>\rightarrow</math> (parentheses)</p> <p>a.) <math>9 \times 34 + 8 \div 6 = 63</math></p> <p>b.) <math>13 + 12 - 7 \div 3 \times 5 = 30</math></p> |               |
| <p>Compare using <math>&lt;</math>, <math>&gt;</math>, or <math>=</math></p> <p><math>3,164 \times 6</math> <input type="radio"/> <math>2,839 \times 7</math></p>  |               |
| <p>a.) <math>5\frac{5}{6} - 3\frac{1}{4}</math></p> <p>b.) <math>6\frac{2}{3} + 2\frac{1}{5}</math></p>  |               |
| <p>Compare using <math>&lt;</math>, <math>&gt;</math> or <math>=</math>:</p> <p>a.) <math>0.240</math> <input type="radio"/> <math>0.42</math></p> <p>b.) <math>5.6</math> <input type="radio"/> <math>5.39</math></p>     |               |

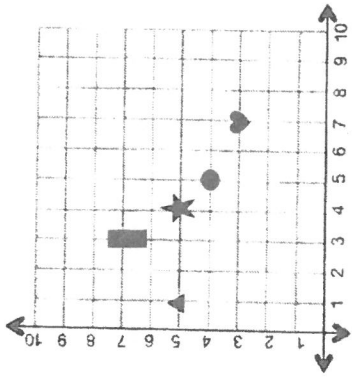
# Week Nine

| Problem  | Work & Answer |        |        |        |             |      |      |      |  |
|--|---------------|--------|--------|--------|-------------|------|------|------|--|
| <p>a.) <math>54 \times 22</math></p> <p>b.) <math>67 \times 33</math></p>  |               |        |        |        |             |      |      |      |  |
| <p>A cookie recipe calls for <math>2\frac{1}{3}</math> cups of flour. If you want to double the recipe, how much flour will you need?</p>  |               |        |        |        |             |      |      |      |  |
| <p>The chart shows the drop in temperature as the evening approaches. If the pattern continues, what temperature will it be at 8:00pm?</p> <table border="1" data-bbox="885 1260 1015 1963"> <tr> <td>Time</td> <td>3:00pm</td> <td>4:00pm</td> <td>5:00pm</td> </tr> <tr> <td>Temperature</td> <td>38°F</td> <td>34°F</td> <td>30°F</td> </tr> </table> | Time          | 3:00pm | 4:00pm | 5:00pm | Temperature | 38°F | 34°F | 30°F |  |
| Time   | 3:00pm        | 4:00pm | 5:00pm |        |             |      |      |      |  |
| Temperature  | 38°F          | 34°F   | 30°F   |        |             |      |      |      |  |
| <p>Add. Write your answer in simplest form.</p> $\frac{2}{3} + \frac{1}{4} + \frac{5}{6}$  |               |        |        |        |             |      |      |      |  |
| <p>Round each number to the nearest thousandth place.</p> <p>a.) 572.6824</p> <p>b.) 375.9375</p> <p style="text-align: center; font-size: 2em;"><i>May Do</i></p>   |               |        |        |        |             |      |      |      |  |



# Week Ten



| Problem   | Work & Answer   |
|---|---|
| <p>Write each number below in standard form.</p> <p>a.) <math>(3 \times 1) + (2 \times \frac{1}{10}) + (8 \times \frac{1}{100})</math></p> <p>b.) <math>(4 \times \frac{1}{10}) + (7 \times \frac{1}{100}) + (9 \times \frac{1}{1000})</math></p> |   |
| <p>a.) How many yards are in 6 miles.</p> <p>b.) How many inches are in 4 yards.</p>  | <p>May</p> <p>70</p>  |
| <p>Name each shape located at the given points.</p> <p>a.) (1,5)</p> <p>b.) (3,7)</p> <p>c.) (5,4)</p>  |   |
| <p>Order the following numbers from least to greatest.</p> <p>1.781, 0.788, 1.807, 0.87, 0.807</p>  |   |
| <p>Circle the expression that is equivalent to the following, then solve the correct expression.</p> <p><math>\frac{1}{4}</math> of <math>\frac{2}{5}</math></p>  | <p>a.) <math>\frac{2}{5} \div 4</math>      b.) <math>\frac{1}{4} \times \frac{2}{5}</math>      c.) <math>\frac{1}{4} + \frac{2}{5}</math></p> |