



Name: _____

Homework (WEEK 9) S+

TRY YOUR BEST AND SHOW ALL OF YOUR WORK! Use CUBES (circle, underline, box, evaluate, and solve) to earn full credit.


MONDAY:

Directions: Solve the following problems. You MUST show your work. **NO WORK = NO CREDIT.**

<p>1. Simplify the following expressions:</p> <p>a. $8 + 3(x - 2) + 4x$</p> <p>b. $9y + 4x + y + 3(2x)$</p> <p style="text-align: center;">2</p>	<p>2. Solve and graph the solutions on a number line.</p> <p>a. $4x = 20$ </p> <p>b. $\frac{x}{7} = 3$ </p>
<p>3. Insert $<$, $>$ or $=$ to compare the fractions:</p> <p>a. $\frac{3}{5}$ _____ $\frac{5}{9}$</p> <p>b. $\frac{2}{7}$ _____ $\frac{4}{11}$</p>	<p>4. Royal and Niam go to an amusement park. Niam spends $\frac{1}{2}$ of his money, and Royal spends $\frac{1}{4}$ of his money. Is it possible for Royal to have spent more money than Niam? Explain your reasoning.</p> <p>Answer _____</p>

TUESDAY:

Directions: Solve the following problems. You MUST show your work. **NO WORK = NO CREDIT.**

<p>1. It costs \$10 to ship items across the U.S plus \$4 per item. The expression $10 + 4i$ can be used to find the cost of any number of items, i.</p> <p>If there are 12 items being shipped, how much would that cost?</p> <p>_____</p> <p>If there are 9 items being shipped, how much would that cost?</p> <p>_____</p>	<p>2. Give a simplified expression to represent the perimeter of the figure.</p> <div style="text-align: center;">  </div> <p>Expression _____</p> <p>If x has a value of 4, what is the perimeter of the figure?</p> <p>Answer _____</p>
<p>3. Mr. Campbell jogs $2\frac{4}{5}$ km on a trail and then sits down to wait for his friend Mr. Hall. Mr. Hall has jogged $1\frac{1}{2}$ km down the trail. How much farther will Mr. Hall have to jog to reach Mr. Campbell?</p> <p>Answer _____</p>	<p>4. Multiply the following fractions. Answers must be simplified.</p> <p>a. $\frac{1}{2} \times \frac{3}{4} =$ _____</p> <p>b. $\frac{2}{3} \times \frac{1}{6} =$ _____</p> <p>c. $4 \times \frac{2}{7} =$ _____</p> <p>d. $\frac{4}{5} \times 8 =$ _____</p>

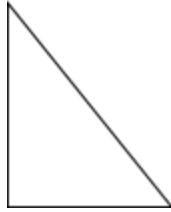
WEDNESDAY:

Directions: Solve the following problems. You MUST show your work. **NO WORK = NO CREDIT.**

<p>1. Evaluate the following if $a=10$, $b=5$ and $c=2$:</p> <p>a. $40/a + b^2$</p> <p>b. $5ac - 3(b + 4)$</p> <p>c. $30/c - 2b + (a - c)^2$</p>	<p>2. Insert $<$, $>$ or $=$ to compare the fractions:</p> <p>a. 5^3 _____ 4^4</p> <p>b. 6^3 _____ 5^4</p>
<p>3. Julius is ordering popcorn for his buddies at the movie theater. He has \$20 and each bucket of popcorn costs \$4.</p> <p>a. Write and solve an inequality to find the maximum number of buckets he can buy.</p> <p>b. Graph the solution on a number line.</p> <p>←—————→</p>	<p>4. Solve each equation. Check your solution.</p> <p>a. $m + 13 = 24$</p> <p>b. $n - 31 = 12$</p> <p>c. $7u = 42$</p> <p>d. $\frac{w}{11} = 4$</p>

THURSDAY:

Directions: Solve the following problems. You MUST show your work. **NO WORK = NO CREDIT.**

<p>1. List the property (associative, commutative, distributive, or identity) that the statement represents.</p> <p>a. $3(x + 2) = 3x + 6$ _____</p> <p>b. $4 \times 6 \times 7 = 6 \times 4 \times 7$ _____</p> <p>c. $(9 + 2) + 1 = 9 + (2 + 1)$ _____</p> <p>d. $5 \times 1 = 5$ _____</p> <p>e. $8 + 0 = 8$ _____</p>	<p>2. The area of a triangle can be found using the expression $\frac{bh}{2}$, where b is the base and h is the height. Find the area of the triangle.</p> <p>14ft.  _____</p>												
<p>3. The number of students at Ridge Road Middle School is 31 less than 2 times the number of students at Highland Creek Elementary. Create an expression that represents the amount of students at RRMS.</p> <p>_____</p> <p>How many students are there if 800 students attend the elementary school? _____</p>	<p>4. Create an equation that represents the relationship between x and y in the table. _____</p> <table border="1" data-bbox="824 1621 1533 1703"><tr><td>x</td><td>1</td><td>2</td><td>3</td><td>5</td><td></td></tr><tr><td>y</td><td>3</td><td>6</td><td>9</td><td></td><td>21</td></tr></table> <p>Fill in the entire table by using your equation.</p>	x	1	2	3	5		y	3	6	9		21
x	1	2	3	5									
y	3	6	9		21								