

Name \_\_\_\_\_

**Homework (WEEK 5) S+:**

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

**MONDAY:**

Solve the following problems **without a calculator**. You MUST show your work. **NO WORK = NO CREDIT.**

<p>1. Solve.</p> $\frac{(6 \cdot 3 - 8)^2 \div 4(5^2 \div 5)}{5^3 \div (5^2 \cdot 5)}$ <p>Answer _____</p>	<p>2. Evaluate.</p> $\frac{4^3 \cdot 3^3}{2^4 \div 4^0}$ <p>Answer _____</p>
<p>1. In the list of numbers below, put a <input type="checkbox"/> around the prime numbers and put a <input type="checkbox"/> around the composite numbers.</p> <p>11      24      33      51      27      99      91</p> <p>63      31      25      43      57      1      54</p> <p>Answer _____</p>	<p>2. Solve.</p> $(6 \cdot 4 \div 3)^2 - (2^4 - 5 \cdot 2)$ <p>Answer _____</p>

**TUESDAY:**

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

<p>1. Using the divisibility rules, state what each number is divisible by (using the rules for 2, 3, 5, and 10) and EXPLAIN WHY.</p> <p>a. 57 _____</p> <p>b. 47 _____</p> <p>c. 690 _____</p>	<p>2. Kyrel wrote <math>64</math> as <math>8 \cdot 2</math>. What did he do wrong?</p> <p>_____</p> <p>3. Write the following in exponential form:</p> <p><math>c \cdot c \cdot c \cdot v \cdot v \cdot v \cdot 6 \cdot 6 \cdot 6</math> _____</p> <p><math>w \cdot w \cdot w \cdot w \cdot w \cdot w \cdot w \cdot w \cdot w</math> _____</p> <p><math>\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}</math> _____</p>
<p>4. There are 117 people in the cooking class. Everyone has to buy 1 dozen eggs. How many eggs will the class have in total?</p> <p>Answer _____</p>	<p>5. Evaluate.</p> <p>a. <math>(6^2 \div 9)^3</math></p> <p>Answer _____</p>

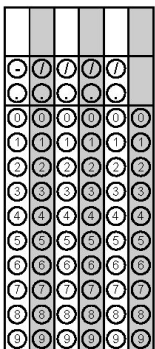
**WEDNESDAY:**

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

1. Gridded Response:

Luke ran  $2^6$  miles in January. How many miles did he run?

Answer \_\_\_\_\_

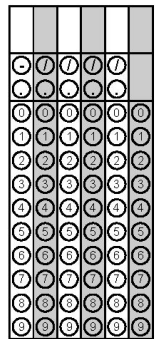


2. Gridded Response:

Evaluate the following:  $3^5 \cdot 5^6$

$3^3 \cdot 5^4$

Answer \_\_\_\_\_



3. Evaluate the following expression:

$$10 + 6(3^3 - 12) \div 3^2$$

Answer \_\_\_\_\_

4. Evaluate the following expression:

$$(2^3 - 1^4) + 2(4^0 \cdot 4)$$

$$5^2 + 2 \cdot 5 - 1$$

Answer \_\_\_\_\_

**THURSDAY:**

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

1. Mr. Maranello is cutting kite string from a 100-foot-long piece of thread by cutting it into as many 15-foot-long sections as possible. How many feet of rope will be left over?

Answer \_\_\_\_\_

2. Pat owns a car wash business. She charges \$13 to wash and wax a car. She serviced 145 cars last week. What was her profit for the week?

Answer \_\_\_\_\_

3. Mrs. Ward buys a number “n” of boxes of cereal each week. This week, she buys triple the number she normally buys, because she wants to donate 4 boxes to her local food bank. Write an expression below that demonstrates this statement.

If Mrs. Ward typically buys 4 boxes of cereal, how many did she purchase this week?

Answer \_\_\_\_\_

How many does she have left over?

Answer \_\_\_\_\_

4. Mrs. Guy drives a certain distance “d” to school every day. She arrived at school, only to realize that she left her lesson plans at her house. She had to return home to retrieve them, and then back to school. Which expression best describes her journey? WHY?

- a.  $d^2$
- b.  $2d$
- c.  $3d$
- d.  $d^3$
- e.  $d + 2$
- f.  $d + 3$

