

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

**WEEK 2 HOMEWORK (HONORS)**

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

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

<p>1. <math>990 \div 9 =</math></p> <p>Answer _____</p> <p>2. <math>2200 \div 11 =</math></p> <p>Answer _____</p>	<p>3. <math>713 \cdot 7 =</math></p> <p>Answer _____</p> <p>4. A costume designer needs 3,600 centimeters of pink thread for a project. If there are 400 centimeters of thread on each spool, how many should she buy?</p> <p>Answer _____</p>
<p>5. Royal, an office manager needs to order 70,000 pushpins for his company. If the pushpins come in boxes of 20, how many boxes should Royal order?</p> <p>Answer _____</p>	<p>6. <math>784 \cdot 33 =</math></p> <p>Answer _____</p> <p>The answer in question 6 is divisible by: 2, 3, 4, 5, 6, 8, 9, 10 <b><i>Circle all correct answers</i></b></p>

**Homework: Tuesday**

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

<p>1. Trey bought 121 pounds of gummi bears at the candy store. Gin bought 9 times as many pounds as Trey. How much more gummi bears did Gin buy than Trey?</p> <p>Answer _____</p> <p>2. <math>975 \cdot 45 =</math></p> <p>Answer _____</p>	<p>3. <math>25,765 \div 5 =</math></p> <p>Answer _____</p> <p>4. <math>272,948 \div 52 =</math></p> <p>Answer _____</p>
<p>5. A hotel needs to arrange 25,088 flowers in vases for a reception. If each vase can hold 16 flowers, how many vases will the hotel need?</p>	<p><b>6. Divisibility Rules!</b></p> <p>A number is: divisible by <b>2</b> if _____ divisible by <b>3</b> if _____</p>

<p><b>Answer</b> _____</p>	<p>divisible by <b>5</b> _____</p> <p>divisible by <b>6</b> if _____</p> <p>divisible by <b>9</b> if _____</p> <p>divisible by <b>10</b> if _____</p>
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**Honors-Homework: Wednesday**

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

<p>1. Create a division problem that has a remainder, solve that problem. How would you check your answer using multiplication if there is a remainder?</p> <p><b>Answer</b> _____</p>	<p>2. It cost \$315, 744 to make 22 iPhones. How much did it cost to make each iPhone?</p> <p>Equation: _____</p> <p><b>Answer</b> _____</p>
<p>3. <b>Divide.</b> Check your answer using <b>multiplication</b>.  <math>87,456 \div 6 =</math></p> <p><b>Answer</b> _____</p>	<p>4. <b>Divide.</b> Check your answer using <b>multiplication</b>.  <math>6,555 \div 9 =</math></p> <p><b>Answer</b> _____</p>

**Homework: Thursday**

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

<p>1. Solve:</p> $3^0 + 6(5 + 4 \div 2) - 7^1 \div 7$ <p><b>Answer</b> _____</p> <p>Simplify: <math>4^4 \cdot 4^3 =</math> _____</p>	<p>2. <math>63^1 \cdot 3^6 =</math></p> <p><b>Answer</b> _____</p> <p>3. <math>1000^0 + 5^2 + 4^3 \cdot 1^9</math></p> <p><b>Answer</b> _____</p>
<p>4. In one night, a movie theater makes a profit of \$6,450 selling tickets. Each ticket costs \$15 dollars. How many people purchased a ticket?</p> <p><b>Answer</b> _____</p> <p>5. <b>SAT Question:</b> What is the result when <math>10^5 \cdot 10^5</math>? Explain the rule?</p> <p><b>Answer</b> _____</p>	<p>6. <b>SAT Question</b>  Evaluate: If <math>a + 2 = 7</math>, then <math>(a+3)^2 =</math></p> <p><b>Answer</b> _____</p> <p>7. Simplify: <math>3^1 \cdot 3^4 \cdot 3^6</math></p> <p><b>Answer</b> _____</p>



**After MAP Testing Work**

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

<p>1. There are 181, 939 visitors to a park in Charlotte. The park is only open for 31 days. What was the daily average number of visitors each day?</p> <p>1b. Leslie bakes 225, 088 cookies in a weekend. She sells the cookies in packs of 20. How many packs of cookies did she sell, and how many did she have left over?</p>	<p>2. <math>8,248 \div 121 =</math></p> <p>3. A goldsmith purchased 12 kilograms of gold. The price of the gold was \$33,045 per kilogram. What was the total price of the gold?</p>
<p>4. Since he was hired, a chef has served a total of 91,766 guests. Of those guests, 99 were adults. How many children has the chef served?</p>	<p>5. Top Hat Soda has 9 liters of cola to bottle. Each bottle holds 9 liters. How many bottles will the cola fill?</p>

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

<p>1. <b>Deduce.</b> How could the fact <math>64 \div 8 = 8</math> help you estimate the quotient of <math>644, 321 \div 84</math>?</p>	<p>2. Write a real-world problem about dividing \$195, 885 by \$15. Then solve the problem.</p>
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Find each missing number.

Dividend	Divisor	Quotient	Remainder
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524	3	174	
7,204	25		4
	71	4,256	0
	52	8,231	22
4,064		90	14

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

<p>1. <math>742 \cdot 167 =</math></p>    <p>2. <math>82,925 \div 25 =</math></p>	<p>3. What numbers are 84,485,588 divisible by? 0-10</p>   <p>4. Given 1250:</p> <p>Is it divisible by 2? _____ Why? _____</p> <p>By 5? _____ Why? _____</p> <p>By 10 _____ Why? _____</p>
<p>5. Find the smallest number that is divisible by: 2, 4, 6, and 8</p>          <p>Explain how you found your answer:</p>	<p>6. Devise a rule for divisibility by 12 with examples provided.</p>