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

**Homework (WEEK 3) Honors:**

**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.***

|  |  |
| --- | --- |
| 1. Oka had $12. Then she saved $15 from her allowance. She bought 5 blow pops for $.25 each, 24-tootsie rolls for $.03 each, and 2 airheads for $.60 each. How much money did Oka spend and how much does Oka have left? **Answer\_\_\_\_\_\_\_\_** | 2. Write the following in exponential form and  evaluate:A. 6 x 6 x 6 x 6 x 6 = \_\_\_\_=\_\_\_\_\_ B. 5 x 5 x 5 x 5 =\_\_\_\_=\_\_\_\_\_  C. 12 x 12 = \_\_\_\_=\_\_\_\_\_ |
| 3. A group of 1,176 campers wants to take boats out on the lake. If each boat holds 12 campers, how many boats will the campers need?**Answer\_\_\_\_\_\_\_\_**4. SAT Question: If **3x-2 =3**, then ***x= 3*** **Answer\_\_\_\_\_\_\_** | 1. 173 x 43 =

**Answer\_\_\_\_\_\_\_\_**1. SAT Question: If 24= 4x, then

**Answer\_\_\_\_\_\_\_\_**  |

**TUESDAY**

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

|  |  |
| --- | --- |
| 1. Each question on a game show is worth 15 points. Last night, a contestant answered 268 questions correctly. How many points did the contestant earn?**Answer\_\_\_\_\_\_\_\_**1a. Evaluate: 52 · 5 ÷ 5+ 52  **Answer\_\_\_\_\_\_\_\_** | 2. Evaluate: 52 ÷ (25 ÷ 5) 2 **Answer\_\_\_\_\_\_\_\_**3.  \_\_\_\_\_\_\_\_\_\_ Describe the rule for dividing exponents with the same base**Answer\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| 4. Evaluate:   ***\_\_\_\_\_\_\_\_\_\_***Can you use the rule for dividing exponents for this problem? Explain why or why not? **Answer\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | 5. Look at the following number:**87341.32**What number is in the hundredths place? \_\_\_\_\_\_ What number is in the hundreds place? \_\_\_\_\_\_\_What number is in the tenths place? \_\_\_\_\_\_ What number is in the ten thousands place? \_\_\_\_\_ |

**WEDNESDAY**

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

|  |  |
| --- | --- |
| 1. 79,325 ÷ 24 =**Answer\_\_\_\_\_\_\_\_** | 2. Write in expanded form and solve. a) 64 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_=\_\_\_\_\_ b) 35 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_=\_\_\_\_\_ c) 1320= \_\_\_\_\_\_\_\_\_\_\_\_\_\_=\_\_\_\_\_ d) 255451= \_\_\_\_\_\_\_\_\_\_\_\_=\_\_\_\_\_ |
| 3. 268 miners need to ride the elevator to the bottom of the mine. The elevator can hold 17 miners at a time. How many miners will be in the elevator on its last trip?**Answer\_\_\_\_\_\_\_\_**1. Solve.

(6•4÷3) 2 – (24 – 5 •2) ÷ (22 ÷ 21) +22340**Answer\_\_\_\_\_\_\_\_**  | 5. Solve.  (6 • 3 – 8)2 ÷ 4(52 ÷ 5) 0 + 5(52)  **Answer\_\_\_\_\_\_\_\_** |

**THURSDAY**

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

|  |  |
| --- | --- |
| 1. Evaluate:

(1990 • 92)3(33 ÷ 3)**Answer\_\_\_\_\_\_\_\_** | 2. Try your luck at these analogy puzzles. An analogy compares two things to two others. Here is example:  9 : 10 : : 81 : ? This is read as “9 is to 10 as 81 is to …” and the answer is 100.  92 = 81  102 = 100 Now find the missing numbers or words in the following analogies: a. 11 : 121 : : 20 : b. 3 : 27 : : 4 :  |
| 3. Solve.(90 + 3) 0 + 5(72 ÷ 9 + 2) + 12**Answer\_\_\_\_\_\_\_\_** | 1. Solve.

122 – 5(3 • 3 + 3) =  3 **Answer\_\_\_\_\_\_\_\_** |