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