Dear Grade 5 Mathematicians,

Practice makes progress.

We are finishing up **Unit** 2 and preparing to show what we learned over the past several weeks. Throughout the unit, we focused on mastering many important skills. To practice these skills, please login to your online SRB (Student Reference Book) to review the **examples** and **Check Your Understanding** problems listed below. Be sure to check the answers in the answer key at the back of the SRB!

Skill	Example	Check your Understanding
*Identify values of digits	Pgs. 66-67	Pg. 67
*Write numbers in expanded form	Pgs. 70	Pg. 70
*Represent powers of 10 in exponential notation	Pgs. 68-69	Pg. 69
*Explain patterns when multiplying a power by 10	Pg. 66	
*Multiply with US traditional multiplication	Pgs. 102-103	Pg. 103
*Divide multidigit numbers	Pgs. 108-112	Pg. 112
*Interpret the remainder in a division problem	Pgs. 113-114	Pg. 114

Additional practice problems are included in this packet to help further support the unit 2 mathematical skills. Try teaching somebody at home how you solved them to strengthen your understanding!

Mathematically Yours,
The Grade 5 Team

Answers

5th Grade Unit 2 Review

NAME:

1. a. Write 10,000 in exponential notation. 10^4

   b. Write 10^5 in standard notation. 100,000

   c. Write the product of 10 * 10 * 10 * 10 in standard notation. 10,000

   d. Write 345 * 10^4 in standard notation. 3,450,000

2. Tamara solved the problem 91 * 28. Her work is shown below.

```
     91
   * 28
    180
      2
     72
   +  8
    262
```

Is she correct? Explain.

No 90 x 20 = 1800

3. Convert pounds to ounces.

   1 pound = 16 ounces

   3 pounds = __48__ ounces

   7 pounds = __112__ ounces

   __3__ pounds = 48 ounces

   $16 \times 3 = 48$

   $16 \times 7 = 112$

4. Make an estimate then solve.

   $345 \times 8 = $ __2,760__

   Estimate: __350 x 10 = 3,500__

   $$\begin{array}{r} \overset{3}{3}\overset{4}{4}5 \\ \times\ 8 \\ \hline 2,760 \end{array}$$

   $46 \times 27 = $ __1,242__

   Estimate: __50 x 30 = 1,500__

   $$\begin{array}{r} \overset{1}{4}6 \\ \times\ 27 \\ \hline 322 \\ 920 \\ \hline 1,242 \end{array}$$

5. Make an estimate then solve.

   $642 \div 3 = $ __600 ÷ 3 = 200__

   Estimate: __214__

   $$\begin{array}{r} 3\,\overline{)642} \\ -600 \quad 200 \\ \hline 342 \\ 36 \quad 12 \\ \hline 6 \\ 6 \quad 2 \\ \hline 0 \end{array}$$

   $843 \div 20 = $ __800 ÷ 20 = 40__

   Estimate: __42 R3__

   $$\begin{array}{r} 20\,\overline{)843} \\ 800 \quad 40 \\ \hline 43 \\ 40 \quad 2 \\ \hline 3 \end{array}$$

6. If you have a box of cookies that weighs 2lbs and 6 ounces, how many ounces does it weigh? Write an expression with grouping symbols to model the number story.

Number Model: $(2 \times 16) + 6$

$32 + 6 = 38$

Answer: _____ 38 _____ ounces

7. Mr. Doyle is boxing up his cranberry sauce. He has 421 jars of sauce that he needs to put into boxes. The boxes hold 24 jars. How many boxes will he need?

Quotient: _____ 17 _____ Remainder: _____ 13 _____

How many boxes will he need? _____ 18 _____

Circle what do you need to do with the remainder?   Ignore it   (Round the quotient up)

8. **Solve the number riddle.**

I am a 5-digit number.
My 2 is worth 1,000.
My 5 is worth 500.
My 6 is worth 100 times as much as my 5.
My 4 is worth 4[10s].
My other digit is 1.

What number am I? _6_ _2_ , _5_ _4_ _1_