## $5^{\text {th }}$ Grade Math Unit 1 Study Guide

## Vocabulary

Find the definition for each term and provide an example or picture.

| Term | Definition | Example/Picture |
| :--- | :--- | :--- |
| Expression |  |  |
| Equation |  |  |
| Product |  |  |
| Quotient |  |  |
| Sum |  |  |
| Difference |  |  |
| Value |  |  |
| Place Value |  |  |
| Exponent |  |  |
| Power of 10 |  |  |
| Standard |  |  |
| Algorithm |  |  |
| Partial |  |  |
| Products |  |  |

Name the Place
Fill in the blanks. The first one has been done for you.

|  | 7 | 2 | 3 | 4 | 8 | 1 | 5 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Place | Thousand |  |  |  |  |  |  |
| Value | 7,000 |  |  |  |  |  |  |

## Place Value Comparison

How does the value of 7 dimes compare to the value of 7 pennies?
A. The value of 7 dimes is 10 times as much as the value of 7 pennies
B. The value of 7 dimes is $1 / 10$ times as much as the value of 7 pennies
C. The value of 7 dimes is 70 times as much as the value of 7 pennies
D. The value of 7 dimes is $1 / 70$ times as much as the value of 7 pennies

What number has a digit 5 with a value that is 100 times greater that the value of the digit 5 in 7,825 ?
A. 1,457
B. 4,582
C. 5,963
D. 1,825

## Evaluate Expressions

Which expression shows triple the difference of nine and six? Solve.
A. $9-6 \times 3$
B. $3 \times 9-6$
C. $9-(6 \times 3)$
D. $3(9-6)$

Answer: $\qquad$

## Expression Value

Find the expression value and answer the question below.

| Teacher | Expression | Value |
| :--- | :---: | :---: |
| Mr. Lew | $7 \times 8 \div 4+2$ |  |
| Ms. Childs | $\left(10^{2} \div 20\right) \times 3+7$ |  |
| Mr. Fernandez | $5(4-1)+4 \div 2$ |  |

Sort the teachers from greatest to lowest expression value:

## Expression Match-up

Match the expressions to the corresponding word problems.

$$
\begin{aligned}
& \text { Expression } \\
& 7 \times(5-3) \\
& 1+2(5+3)+3 \\
& 9 \div 3-1 \\
& \text { Sergio had nine cookies but decided to share it } \\
& \text { equally among two other friends. Then, he gave } \\
& \text { one to his dog. How many cookies does Sergio } \\
& \text { have left? } \\
& \text { Mia went home and found that her goldfish had } \\
& \text { laid five eggs on Monday and three eggs on } \\
& \text { Tuesday. When they hatched, they were all } \\
& \text { twins! She bought three more goldfish from the } \\
& \text { store. How many goldfish does Mia have? } \\
& \text { Jaylen attempted to backflip five times, but he } \\
& \text { wasn't able to land on his feet three of those } \\
& \text { times. He repeated this cycle seven times. How } \\
& \text { many times did Jaylen land on his feet? }
\end{aligned}
$$

## Powers of Ten

Mr. Williams solved $6 \times 10^{5}$ to equal 600,000. Was he correct? $\qquad$
What is the pattern between the exponent and his answer?

## Multiplication

Explain the error for each multiplication strategy for multiplying 125 and 56. Then, solve to find the correct answer



An art museum is setting up 5 new exhibitions. If each exhibition holds 132 paintings, how many total paintings will the museum hold?

## Division

Ms. Lemons is reading a historical fiction book that is 672 pages long. If she reads 48 pages each day, how many days will it take her to read the book? Use partial quotients.

