Name: _____ Test _____ *Parent Signature* _____

Unit 2: Addition & Subtraction Study Guide

Be sure to show your work for each math problem.

1) Find the **difference** of 3,012 and 429 **and** verify your answer.

2) **Solve:** 13,601 + 11,961

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3) Find the **sum** of 54,168 and 1,407

   a. 52,761

   b. 55,565

   c. 55,575

   d. 68,238

4) **Estimate**: 34,251 – 18,163 =

   a. 50,000

   b. 40,000

   c. 20,000

   d. 10,000

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5) Find the missing digit: (Show your work.)

$$
\begin{array}{r}
1\,4,4\,2\,4 \\
+\quad \lozenge,5\,9\,9 \\
\hline
1\,6,0\,2\,3
\end{array}
$$

$\lozenge$ = _____

6) Find the missing digit: (Show your work.)

$$
\begin{array}{r}
6\,0,4\,0\,0 \\
-\quad 3\triangle,8\,2\,9 \\
\hline
2\,0,5\,7\,1
\end{array}
$$

$\triangle$ = _____

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7) **Estimate** the sum of 42,902 and 12,859 to the nearest **thousand.** Show your work.

8) A mother elephant weighed 5,917 kg, and a father weighed 6,444 kg. They have a baby elephant, and the three of them together weigh 12,487 kg. Which equation could be used to find the weight of the baby elephant?

   a. 6,444 – b = 5,917

   b. 12,487 + 6,444 + 5,917 = b

   c. 6,444 + b = 12,487

   d. 5,917 + 6,444 + b = 12,487

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9) The United States produced 284 fewer movies last year than India. If India produced 2,971 movies, how many movies were produced in the USA?

10) Mackenzie has collected 17,769 stamps. Her friend Lucia also collects stamps. Together they have 24,297 stamps. **About** how many stamps does Lucia have?

11) The following clues make what number?

26 tens   8 ten thousands   2 thousands

Standard Form:

Expanded Form:

Word Form:

12) There were about 265,704 books in the library. Ms. Taylor received a shipment of books, and now there are 306,622 books. Which equation can be used to find **about** how many books were in the new shipment.

    a.   270,000 + 310,000 = b

    b.   260,000 + 300,000 = b

    c.   270,000 + b = 310,000

    d.   260,000 + b = 300,000

13) Maria solved the following math problem. Why is her answer incorrect? **Please write a complete sentence.** Show your work.

$$\begin{array}{r} 3\,8,0\,0\,7 \\ -\ \ 3,4\,5\,7 \\ \hline 3\,4,5\,4\,0 \end{array}$$

14) There were 2,172 students at North Gwinnett Elementary in August. Thirty-seven students moved to other schools during the year, and more students moved in. Now there are 2,163 students at North Gwinnett Elementary. How many new students enrolled?

15) Javen bought new running shoes for $63 and a jacket for $26. He paid with a $100 bill. How much change did he get? Choose an expression **and** solve.

    a. 100 – (s + j)

    b. (s + j) – 100

16) Write your own equation for each Property of Addition.

Commutative Property_____

Associative Property _____

Identity Property _____

17) Zuri solved the following problem.   Show your work.

$$\begin{array}{r} 7\,8,1\,0\,8 \\ -\ \ 3,4\,6\,9 \\ \hline 7\,5,6\,3\,9 \end{array}$$

Why is her answer incorrect?

    a.   When she subtracted the tens digits, she made an error in subtraction: 10 – 6 equals 4 not 3.

    b.   When she regrouped from the thousands to the hundreds place, she forgot to change the 8 thousand to 7 thousand.

    c.   When she regrouped from the tens place to the ones places, she should have changed the 8 ones to 17 ones.

    d.   When she subtracted the ones digits, she should have subtracted the 8 from the 9 with an answer of 1.