**Topic 3** – **Review**

**Place Value - KEY**

**Mathematician**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***3.1 – I can read and write 3-digit and 4-digit numbers.***

**Vocabulary**

**1.** All numbers are made from the **digits** 0, 1, 2, 3, 4 ,5 ,6 ,7 ,8 , and 9. Write a number with the digit, 4, in the thousands place. Answers will vary.

Examples: **4,326 34,335, 104,256**

**2**. **Place Value** is the value of the place a digit has in a number. What is the value of the digit, 3, in the number 2,346?

**300 – It is in the hundreds place.**

**3**. A number written in a way that shows only its digits is in **standard form**. Write the number three-thousand six-hundred fifty-seven in standard form. Be sure to include a comma.

**3,657**

**4.** A number written as the sum of the values of its digits is in **expanded form.** Write the number three-thousand six-hundred fifty-seven in expanded form.

**3000 + 600 + 50 + 7**

**5.** A number written in words is in **word form**. Write the number 5,236 in word form.

**five-thousand two- hundred thirty-six**

**6**. Tell the value of the underlined digit. 15, 324

**300** – It is in the hundreds place.

**7.** 

**Look at the place value blocks.**

**Write the number that the place value blocks show in standard and expanded form.**

a. standard form: **1,280**

b. expanded form:

**1,000 + 200+ 80**

***3.2– I can understand how digits relate to each other by their place value.***

**Name the values of the given digits in the numbers below.**

**8.** the 3s in 5,336 **300, 30**

**9.** the 7’s in 7,776 **7,000,700,70**

**10**. How many times greater is the underlined 8 in the number 8, 383 than the 8 that is not underlined? **100 times**

***3.3– I can compare whole numbers through hundred thousands.***

**Vocabulary**

**11.** When you compare two numbers, you find out which number is greater and which number is less. Compare the two numbers below using >, <, or =.

343 **>** 342

**Compare the following numbers using >,< or =.**

**12.** 672,444 > 627,444

**13**. 35,200 **>** 35,020

**3.4– I can compare and order numbers using place value.**

**Put the following numbers in order from least to greatest.**

**14**. 80,371 81, 713 80, 137

**80,137 80,317 81,713**

**Complete by writing >, <, or = for each number.**

**15**. 221, 495 **>**210, 388

**16.** 999,000 **>**990,999

**17.** 849,316 **<** 867,255

***3.5– I can round whole numbers using place value.***

**Round each number to the place of the underlined digit.**

**18.** 117,821 **117,820**

**19.** 75,254 **80,000**

**20.** 9, 049 **9,000**

**21**. The fourth grade class ran approximately 2,534 laps during the school year. What is 2,534 rounded to the nearest hundred? **3,000**

**22**. Write four numbers that round to 600 when rounded to the nearest hundred. Answers will vary. **556, 598, 602, 649**

***3.6– I find and record all outcomes for a situation.***

**23. Kim wants to show 430 using only hundreds and tens place value blocks.**

**Complete the table, and then tell how many ways she can show 430.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Hundreds** | 4 | **3** | 2 | **1** | **0** |
| **Tens** | 3 | 13 | **23** | **33** | **43** |

How many ways can she show 430?  **5**

**24.** Ashton is writing a 3-digit number. He uses the digits 1, 5, and 9.

What are the possible numbers he can write?

**159, 195, 591, 519, 915, 951**