## UNIT 1 Math Post Test – STUDY & Practice Guide \*\*Test will be given NEXT WEEK on Tuesday & Wednesday\*\*

I Do:		You Practice:		
True or False:		True or False:		
180 is 1/10 of 18	false	160 is 1/10 of 16	true	false
450 is 10 times as much as 400	false	550 is 10 times as much as 500	true	false
800 is 1/10 of 8,000	true	600 is 1/10 of 6,000	true	false
3,400 is 10 times as much as 340	true	5,500 is 10 times as much as 550	true	false
		1		

Luke has 1,200 coins. He has 100 times as many coins <u>as he had last month</u>. How many coins did Luke have last month? **Answer:** 

Luke has more coins this month than he had last month. Luke had 12 coins last month because 12 x 100 = 1,200.

**You practice:** Abby has 2,300 marbles. She has 100 times as many marbles than she had last month. How many marbles did Abby have last month?

Gianna earned 40,000 bonus points on her computer assignment. <u>This is</u> 10 times as many points as she had earned last week. How many points did Gianna earn last week? **Answer:** 

Last week Gianna had fewer points, so 40,000 ÷ 10 = 4,000. Gianna had 4,000 point last week.

**You practice:** Kylie earned 15,000 bonus stickers on her computer game. This is 100 times as many stickers as she had earned last week. How many stickers did Kylie earn last week?

Choose all that are equivalent to 23.7 **Answer:**  $(2 \times 10) + (3 \times 1) + (7 \times 1/10)$ 

20 + 3 + 0.7

Twenty-three and seven tenths

You practice: Write equivalent statements for 46.8

Explain how you know that the value of the digit 3 in the numbers 403,000 and 400,300 are related by comparing the two numbers.

Answer: 3 in 403,000 has a value of 3,000 because the 3 is in the thousands place 3 in 400,300 has a value of 300 because the 3 is in the hundreds place 3,000 > 300 300 x 10 = 3,000 3,000 ÷ 10 = 300

**You practice:** Explain how you know that the value of the digit 8 in the numbers 708,000 and 700,800 are related by comparing the two numbers:

Exponent Form to Standard Form $10^{0} = 1$ $10^{1} = 10$ $10^{2} = 100$ $10^{3} = 1,000$	You practice: $10^4 = $
Solve:	
Answers:	You practice:
$800 \div 10^3 = 0.8$ moved the decimal left three times	$700 \div 10^3 =$
$0.1345 \times 10^4 = 1,345$ moved the decimal right four times	s $0.248 \times 10^5 =$
9.634 x 10,000 = 96,340 moved the decimal right 4 time	es 7.268 x 1,000 =

The following equations involve different quantities and use different operations, yet produce the same result. Draw a value chart and use words to explain why this is true.

 $3.12 \times 10^3 = 3,120$   $312,000 \div 100 = 3,120$ 

Answer:

 $10^3$  = 1,000 so you need to move the decimal three places to the right because you are multiplying.

Dividing by 100 means you need to move the decimal point 2 places to the left because you are dividing.

3	1	2	0	•		
			3		1	2

Write equivalent statements for eighty-five thousandths:

Answer:

(8 x 0.01) + (5 x 0.001)

85/1,000

0.08 + 0.005

You Practice:	ninety-seven thousandths	

Zach kept a record of how many minutes of TV he watched in a month. His results are shown below. Order the weeks Zach watched TV from the **least** amount to **greatest** amount.

Week 1:	120.876
Week 2:	120.864
Week 3:	119.999
Week 4:	119.099

Answer: Week 4, Week 3, Week 2, Week 1

**You practice**: Riley kept a record of how many miles she ran each week for a month. Her results are below. Order the weeks from the least amount to the greatest amount.

 Week 1:
 5.768

 Week 2:
 5.762

 Week 3:
 4.29

 Week 4:
 4.75

Compare the decimals using >, <, =

0.74 > 0.69 0.09 > 0.009 7.175 > 7.099

You pra	ctice:	
0.63	0.60	
0.034 _	0.4	
77.09 _	77.89	

Matthew claims that 88.653 is closer to 88.6 than 88.7. Is Matthew correct?

No, Matthew is not correct. 88.653 rounded to the tenths place would be 88.7 because the 5 would make the 6 move to a 7.

You practice. Jayson claims that 55.673 is closer to 55.67 than 55.68. Is Jayson correct?

What is 9.5897 rounded to the nearest thousandth?	9.590
What is 12.123 rounded to the nearest <b>tenth</b> ?	12.1
What is 9.039 rounded to the nearest hundredth?	9.04

You practice:	
What is 7.5878 rounded to the nearest thousandth?	
What is 18.236 rounded to the nearest tenth?	
What is 3.078 rounded to the nearest hundredth?	

Between which two numbers is 4.225 located?

4.25 and 4.26 4.24 and 4.25 4.23 and 4.24 4.22 and 4.23 \*\*\* this one because 4.225 would round to 4.23

## You practice:

Between which two numbers is 6.225 located?

6.25 and 6.26 6.22 and 6.23 6.23 and 6.24 6.24 and 6.25

## Using the amounts below, how could you show the number 34,725?

1	Answer:
10	(3 x 10,000) + (4 x 1,000) + (7 x 100) + (2 x 10) + (5 x 1)
100	OR
1,000	$(2 \times 10,000) + (14 \times 1,000) + (6 \times 100) + (12 \times 10) + (5 \times 1)$
10,000	

You practice: Using the amounts below, how could you show the number 87,429?
1
10
100
1,000
10,000

Remember – Our place value system is a base 10 system.