**Week of Monday, August 27- Thursday, August 30: Guided Notes**

**Topic: Ordering numbers in different forms, and placing them on a number line**

**Monday, August 27th**

**> Place Value System**

The value of a number is dependent on its \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

The place value system is identified below with the following number:



**> Ordering Numbers**

To order numbers in different forms, just like last week, it will be easier if they are all \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

* **Example 1:** Convert the numbers into decimal form and then order from least to greatest.
1. -1 ½ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_, order #: \_\_\_\_\_\_\_\_\_\_\_\_
2. √13 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_, order #: \_\_\_\_\_\_\_\_\_\_\_\_
3. √$\frac{49}{9}$ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_, order #: \_\_\_\_\_\_\_\_\_\_\_\_
4. - $\frac{5}{8}$ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_, order #: \_\_\_\_\_\_\_\_\_\_\_\_
5. 2 ¼ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_, order #: \_\_\_\_\_\_\_\_\_\_\_\_
6. 2.37 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_, order #: \_\_\_\_\_\_\_\_\_\_\_\_
7. 1 + √9 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_, order #: \_\_\_\_\_\_\_\_\_\_\_\_
8. - 3/5 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_, order #: \_\_\_\_\_\_\_\_\_\_\_\_
9. 2 $\frac{7}{20}$ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_, order #: \_\_\_\_\_\_\_\_\_\_\_\_
10. - ¾ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_, order #: \_\_\_\_\_\_\_\_\_\_\_\_
* **Example 2:** Order these numbers from least to greatest with your partner.

 -30%, 2.7, √6, 25%, - 3¼

* **Example 3:** Order the following numbers from greatest to least with your partner.

 47%, -5.3, ⅞, -42%

* **Example 4:** Which lists the numbers from least to greatest?
	1. -3 9/10, -3.8, 2 ¼, 2.3
	2. -3.8, -3 9/10, 2 ¼, 2.3
	3. 2 ¼, 2.3, -3.8, -3 9/10
	4. -3 9/10, -3.8, 2.3, 2 ¼
* **Example 5:** Which lists the numbers from greatest to least?
1. 95%, 17/20, -1, -90%
2. -1, 95%, -90%, 17/20
3. 17/20, 95%, -90%, -1
4. 95%, 17/20, -90%, -1
* **Example 6:** Which sentence is true?
	1. -79% > -0.8
	2. √35> 6
	3. $4\frac{2}{3}$ = 425%
	4. 62% < 0.6
* **Example 7:** Which lists the numbers from greatest to least?
1. -6⅛, -6.05, -6.1, -6
2. -6, -6.1, -6.05, -6⅛
3. -6.1, -6⅛, -6.05, -6
4. -6, -6.05, -6.1, -6⅛

**Tuesday, August 28th**

**> Do Now:** Answer the following SILENTLY & INDEPENDENTLY:

1. Which lists the numbers in order from greatest to least?
	1. √45, 4.5, 0.42, 4/7
	2. 4.5, √45, 4/7, 0.42
	3. 0.42, 4.5, √45, 4/7
	4. √45, 4.5, 4/7, 0.42
2. Which sentence is true?
	1. 3.8 > 15
	2. 6.5 > √44
	3. √55 < 7.2
	4. √84 > 9.1

**> Number Lines**

* Now that we know how to order our numbers, we will be placing them on a number line.
* Before we do that, we must make sure our numbers are ordered from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* A number line is a line in which \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.



* **Example 1:** Draw a number line in the box given below. Take numbers from example 1 from yesterday and place them on the line. a-d we will do. e-g do with a partner. h-j do on your own!
	+ **Numbers from yesterday:**
	1. -1 ½ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_, order #: \_\_\_\_\_\_\_\_\_\_\_\_
	2. √13 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_, order #: \_\_\_\_\_\_\_\_\_\_\_\_
	3. √$\frac{49}{9}$ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_, order #: \_\_\_\_\_\_\_\_\_\_\_\_
	4. - $\frac{5}{8}$ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_, order #: \_\_\_\_\_\_\_\_\_\_\_\_
	5. 2 ¼ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_, order #: \_\_\_\_\_\_\_\_\_\_\_\_
	6. 2.37 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_, order #: \_\_\_\_\_\_\_\_\_\_\_\_
	7. 1 + √9 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_, order #: \_\_\_\_\_\_\_\_\_\_\_\_
	8. - 3/5 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_, order #: \_\_\_\_\_\_\_\_\_\_\_\_
	9. 2 $\frac{7}{20}$ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_, order #: \_\_\_\_\_\_\_\_\_\_\_\_
	10. - ¾ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_, order #: \_\_\_\_\_\_\_\_\_\_\_\_
* **Example 2:** Put the numbers in decimal form, then order them, and finally put them on a number line.
1. √4 = \_\_\_\_\_\_\_\_\_
2. ½ = \_\_\_\_\_\_\_\_\_
3. ¾ = \_\_\_\_\_\_\_\_\_
4. -1.75 = \_\_\_\_\_\_\_\_\_
5. -1 = \_\_\_\_\_\_\_\_\_
6. -1.25 = \_\_\_\_\_\_\_\_\_
7. 1 + √4 = \_\_\_\_\_\_\_\_\_
* **Example 3:** Put the numbers in decimal form, then order them, and finally put them on a number line.
1. -35% = \_\_\_\_\_\_\_\_\_
2. -⅓ = \_\_\_\_\_\_\_\_\_
3. -½ = \_\_\_\_\_\_\_\_\_
4. √4 = \_\_\_\_\_\_\_\_\_
5. 1 $\frac{2}{3}$ = \_\_\_\_\_\_\_\_\_
6. 116% = \_\_\_\_\_\_\_\_\_
7. 167% = \_\_\_\_\_\_\_\_\_
* **Example 4:** Which point represents √8 on the number line?



* **Example 5:** Which letter is located at -3?



* **Example 6:** Which point represents the √81?



**Wednesday, August 29th**

**> Do Now:** Please respond to the following SILENTLY & INDEPENDENTLY.

1. Which point on the number line best represents -2$\frac{2}{3}$?

2. Which point on the number line best represents 42%?

