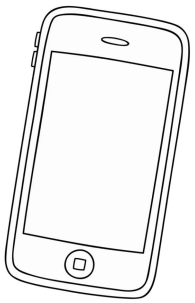
Unit: Real Number System
Student Handout 6

Name _____

Date _____ Pd_____

COMPARING & ORDERING REAL NUMBERS



Krystal and Georgia each have several voicemails saved on their phones. Krystal's voicemail inbox is 63% full while Georgia's is $\frac{7}{12}$ full. Describe the steps you would take to determine whether Krystal or Georgia has a voicemail inbox that is closer to being full.

COMPARING

- To compare two values, first convert the values to the same _____.
- Then, compare the values using an inequality sign:

  <: _____

  >: _____

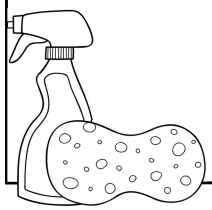
Practice converting between the three forms of numbers by completing the table below:

FRACTION	$\frac{1}{3}$			$\frac{2}{3}$			$\frac{2}{5}$	
DECIMAL		0.2			0.75			1.5
PERCENT			50%			12.5%		

In 1-4, compare the two values by writing the correct inequality sign in the box.

1.	2.	3.	4.
$-\frac{7}{8}$ ☐ -0.5	3.5% ☐ 0.04	-60% ☐ $-\frac{3}{4}$	-1.5 ☐ $-\frac{5}{2}$

5. It took Kiara 35.25 minutes to finish her chores on Saturday, while it took her brother Derek $35\frac{1}{6}$ minutes to finish his chores. Which sibling finished their chores the fastest?



ORDERING

- Lists of values can be ordered from least to greatest, or greatest to least. Write some other key words or phrases that could be used below.
- Least to greatest: _____
- Greatest to least: _____

Read each problem below and correctly order the values.

6. List the following in descending order.

$\sqrt{121}$, π^2, 11.1, $\sqrt{130}$

7. List the following in increasing order.

0.65, 6.5%, $\frac{2}{3}$, $\frac{1}{2}$

8. List the values from least to greatest.

-5.025, $-\sqrt{25}$, $-5\frac{1}{5}$, $-\frac{11}{2}$

9. List the values in ascending order.

43%, $\frac{2}{5}$, $\frac{3}{7}$, $0.4\overline{2}$

10. Faye wrote a list of values in descending order, but one of the values was erased as shown. Which of the following could be the missing value?

$\frac{31}{5}$, ____, $5\frac{1}{2}$, $\sqrt{26}$

a. $6\frac{1}{4}$

b. 60%

c. 5.8

d. $\sqrt{23}$

11. Today's low temperature for four different towns is shown in the table. List the towns in ascending order according to their low temperatures.

TOWN	TEMP. (°F)
Chillyville	$-\sqrt{48}$
Icetown	$-\sqrt{65}$
Shiverton	-7.5
Little Flake	$-\frac{22}{3}$

_____

Summarize today's lesson: