

LESSON 1: COMPARING & ORDERING NUMBERS

Learning Goal 3: I can **convert** a set of real numbers to decimals, then **order** them from Least to Greatest or Greatest to Least.

ESSENTIAL VOCABULARY:

WORD	DEFINITION	EXAMPLES	NON-EXAMPLES
ASCENDING	To ascend , or ascending , means _____ _____ or _____.	The numbers 0, _____, _____ or _____ _____	The numbers 0, _____, _____ or _____ _____
DESCENDING	To descend , or descending , means _____ _____ or _____.	The numbers 9, _____, _____ or _____ _____	The numbers _____, 0, _____ or _____ _____

AGAIN, THE GOLDEN RULES OF **COMPARING** NUMBERS:

1. Positive numbers are **always greater than** negative numbers.

2. First, **CONVERT all numbers to a decimal**, then **fill in empty spaces with zeros** until all numbers have **the same** amount of digits after the decimal point.

3. A negative sign means "**opposite**". Since 5 **is greater than** 4, then the opposite would mean that **-5 is less than** -4.

EXAMPLE 1: Order the set of real numbers in *ascending order*.

$$9\pi, \frac{10\sqrt{30}}{2}, 27.5$$

Tens	Ones	.	Tenths	Hundredths	Thousandths
		.			
		.			
		.			



ANSWER: _____, _____, _____

EXAMPLE 2: Order the set of real numbers in *descending order*.

$$-6\frac{1}{2}, 72.5\%, -2\pi, \frac{46}{7}$$

Tens	Ones	.	Tenths	Hundredths	Thousandths
		.			
		.			
		.			
		.			



ANSWER: _____, _____, _____, _____