

PRACTICE

Name: _____

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.

Directions: Sort the following examples as either describing **ASCENDING** or **DESCENDING**.

- | | | |
|------------------------------|---|--------------------------------|
| A. LEAST TO GREATEST | E. GREATEST TO LEAST | J. GETTING SMALLER |
| B. INCREASING | F. GETTING LARGER | K. DECREASING |
| C. SKATEBOARDING DOWN A HILL | G. GOING UP STAIRS | L. LANDING AN AIRPLANE |
| D. CLIMBING A MOUNTAIN | H. SKYDIVING (JUMPING OUT OF AN AIRPLANE) | M. RIDING A ROCKET TO THE MOON |

Which examples or scenarios describe **ASCENDING**? (Just write the letters!) _____

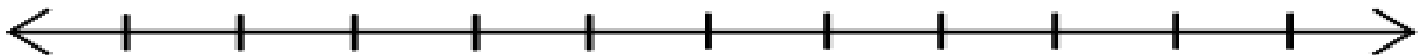
Which examples or scenarios describe **DESCENDING**? (Just write the letters!) _____

- How would you **compare** $-2\frac{1}{4}$ and $-\sqrt{8}$? Which is **greater**? _____

#1) Order the set of real numbers from **greatest to least**.

8% , $\frac{1}{12}$, 16% , $\frac{1}{20}$

Tens	Ones	.	Tenths	Hundredths	Thousandths
		.			
		.			
		.			
		.			

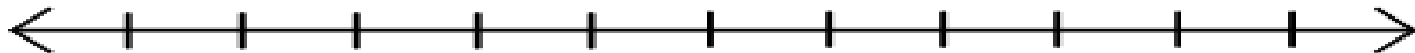


ANSWER: _____ , _____ , _____ , _____

#2) Order the set of real numbers from *greatest to least*.

$$-\pi, -\frac{11}{5}, -2.98, -\sqrt{7}$$

Tens	Ones	.	Tenths	Hundredths	Thousandths
		.			
		.			
		.			
		.			

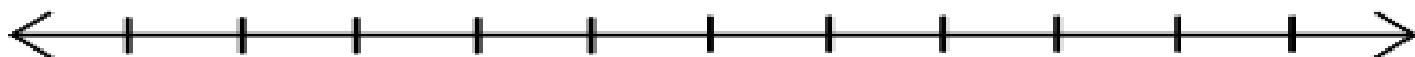


ANSWER: _____, _____, _____, _____

#3) Order the set of real numbers *in ascending order*.

$$-6\frac{1}{4}, 7.25, 10\frac{1}{2}\%, -2\sqrt{10}$$

Tens	Ones	.	Tenths	Hundredths	Thousandths
		.			
		.			
		.			
		.			

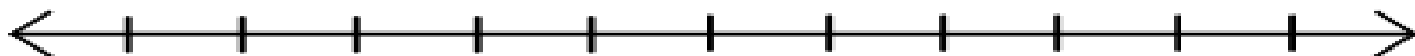


ANSWER: _____, _____, _____, _____

#4) Order the set of real numbers *in descending order*.

$$\frac{\pi}{2}, 125\%, \sqrt{\frac{7}{2}}$$

Tens	Ones	.	Tenths	Hundredths	Thousandths
		.			
		.			
		.			
		.			



ANSWER: _____, _____, _____, _____

#5) There are four students working on an assignment in a class. Mike has completed $\frac{1}{9}$ of the assignment, Gwen has completed 11% of the assignment, Jorge has completed 0.12 of the assignment, and Tai has completed $\frac{1}{8}$ of the assignment. Which of the following lists the students in order from least to greatest by the amount of the assignment they completed?

- F Gwen, Mike, Jorge, Tai
- G Tai, Jorge, Mike, Gwen
- H Gwen, Jorge, Mike, Tai
- J Tai, Mike, Gwen, Jorge

Tens	Ones	.	Tenths	Hundredths	Thousandths
		.			
		.			
		.			
		.			

#6) The water levels of five Texas lakes were measured on the same day in 2010. The table below shows the number of feet above or below normal level for each lake.

Water Levels of Texas Lakes

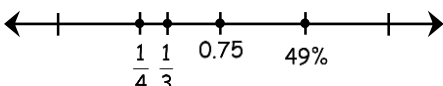
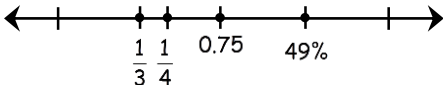

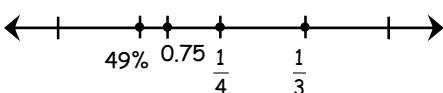
Lake	Number of Feet Above or Below Normal Level
Conroe	0.10
Amistad	-2.65
Richland Chambers	0.16
Possum Kingdom	-1.43
Travis	0.07

Which list shows the numbers in the table from greatest to least?

- F -2.65, -1.43, 0.16, 0.10, 0.07
- G 0.16, 0.10, 0.07, -1.43, -2.65
- H 0.16, 0.10, 0.07, -2.65, -1.43
- J -2.65, -1.43, 0.07, 0.10, 0.16

Tens	Ones	.	Tenths	Hundredths	Thousandths
		.			
		.			
		.			
		.			

#7) Which number line below shows the numbers in order from *least to greatest*?

- A 
- B 
- C 
- D 

Tens	Ones	.	Tenths	Hundredths	Thousandths
		.			
		.			
		.			
		.			

ORDER THE FOLLOWING SETS OF REAL NUMBERS FROM **LEAST TO GREATEST**:

#8) 4.5 , $3\frac{5}{6}$, $\sqrt{16}$, $\frac{8}{3}$, 2π _____

#9) $3\frac{3}{5}$, $\frac{4\pi}{3}$, 92.5% , $\frac{3\sqrt{5}}{2}$ _____

#10) $4\frac{4}{5}$, $\sqrt{19}$, $-\sqrt{5}$, -21 , $\sqrt{5}$ _____

#11) $-\frac{5}{4}$, $-\frac{4}{5}$, -45% , 0.054 _____

ORDER THE FOLLOWING SETS OF REAL NUMBERS FROM **GREATEST TO LEAST**:

#12) $\sqrt{6}$, 1.7 , $\frac{9}{5}$, 2 _____

#13) $\sqrt{14}$, $\sqrt{\frac{49}{36}}$, $3\frac{3}{5}$, 3 _____

#14) 19% , 0 , 0.9 , 9% _____

#15) $-25\frac{1}{4}\%$, -1 , $-\frac{\pi}{3}$, 0 _____