

PRACTICE

Name: Key

LESSON 1: COMPARING & ORDERING NUMBERS

Learning Goal 2: I can **compare** integers and decimals using the symbols $<$, $>$, and $=$.

• What is an **integer**? Give **THREE** examples of **integers**: An integer is a negative or positive whole number, like -10, 8, and -99.

• Explain how you would compare **0.25** and **0.125**. Which is **greater**? 0.250
I line up the decimal and fill empty spaces with zeros. Then I can see that 0.250 is greater than 0.125

• Explain how you would compare **-0.25** and **0.125**. Which is **greater**? I know that 0.125 is greater than -0.25 because all positives are always greater than negatives! (Golden Rule #1)

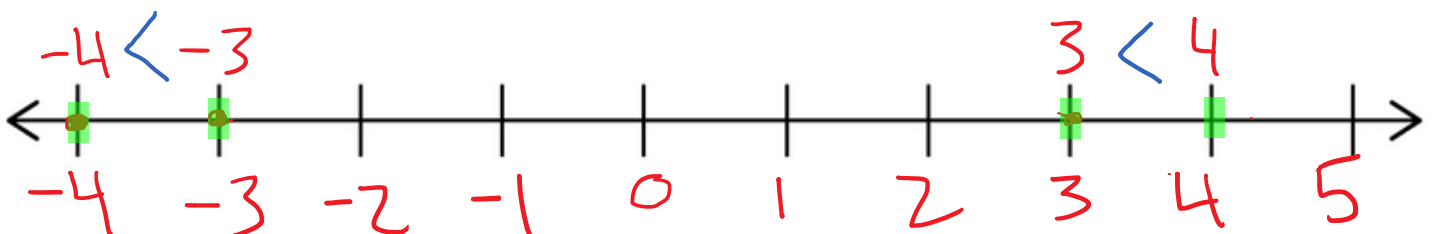
• Explain how you would compare **-0.25** and **-0.125**. Which is **greater**? -0.250
I know negatives are opposites. Since 0.25 > 0.125, the opposite is -0.25 < -0.125 (Golden Rule #3)

Inside the circle, write the symbol $<$, $>$, or $=$. Use the place value table to help. Then, put the values on the number line.

1. 3 $<$ 4

2. -3 $>$ -4

Tens	Ones	.	Tenths	Hundredths	Thousandths
	3	.			
	4	.			
	3	.			
	4	.			



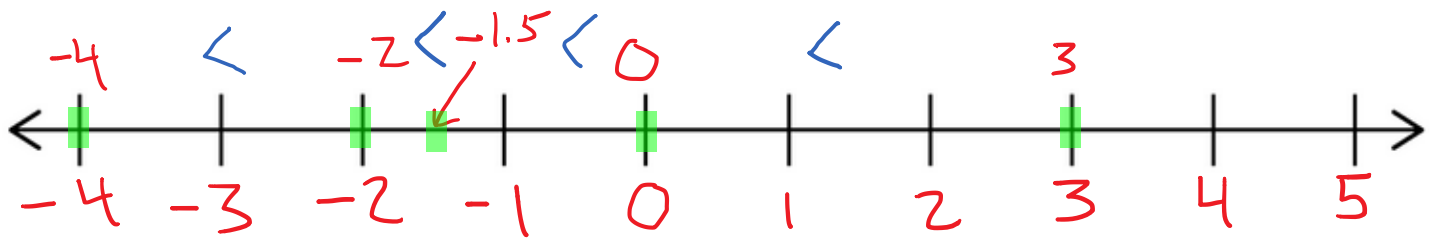
3. 3 $\textcircled{>}$ -4

4. 0 $\textcircled{>}$ -2

5. -1.5 $\textcircled{>}$ -2

Tens	Ones	.	Tenths	Hundredths	Thousandths
	3	.			
-	4	.			
-	0	.			
-	2	.			
-	1	.	5		
-	2	.	0		

6. Place the numbers from **questions 3 through 5** on the number line:



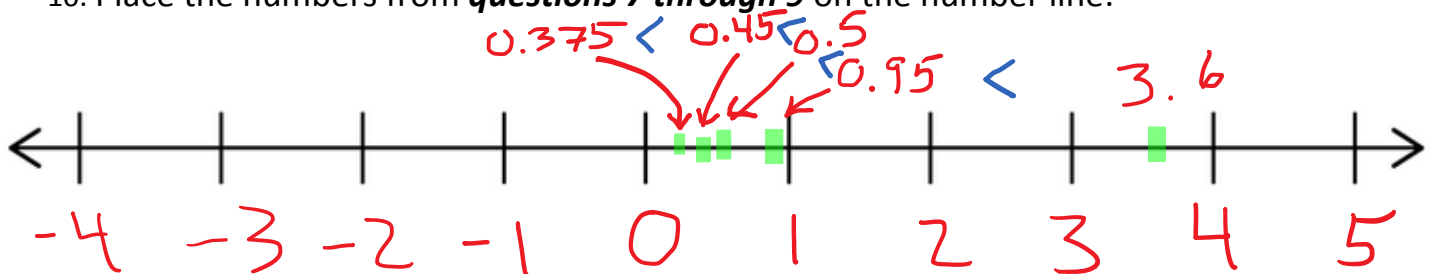
7. 3.6 $\textcircled{=}$ 3.60

8. 0.45 $\textcircled{<}$ 0.5

9. 0.375 $\textcircled{<}$ 0.95

Tens	Ones	.	Tenths	Hundredths	Thousandths
	3	.	6	0	
	3	.	6	0	
	0	.	4	5	
	0	.	5	0	
	0	.	3	7	5
	0	.	9	5	0

10. Place the numbers from **questions 7 through 9** on the number line:



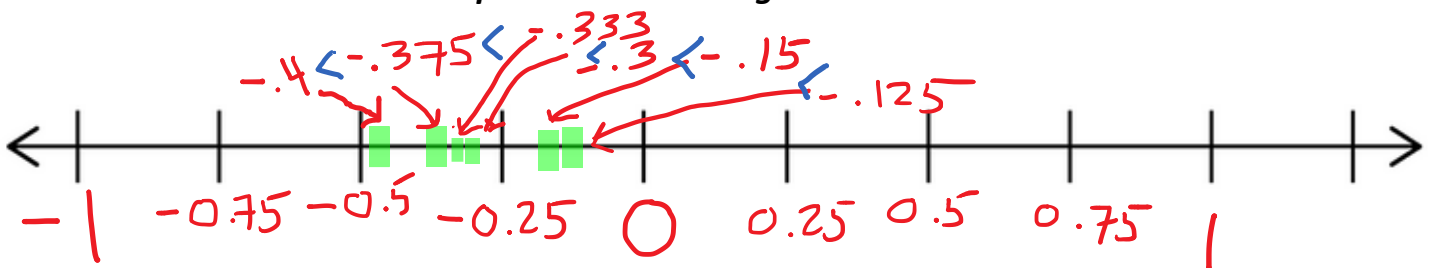
11. -0.375 $>$ -0.4

12. -0.15 $<$ -0.125

13. -0.333 $<$ -0.3

Tens	Ones	.	Tenths	Hundredths	Thousandths
	0	.	3	7	5
	0	.	4	0	0
	0	.	1	5	0
	0	.	1	2	5
	0	.	3	3	3
	0	.	3	0	0

14. Place the numbers from **questions 11 through 13** on the number line:



Fill the circles with the symbol $<$, $>$, **or** $=$.

1. -0.5 $<$ 2

2. -75 $<$ 0.75

3. 0.850 $>$ 0.250

4. 0.380 $=$ 0.380

5. -12 $<$ -4

6. 0 $>$ -10.5

Now try using your skills from **Learning Goal 1** to **convert**, then **compare** these numbers!

1. $25\% \div 100 = 0.25$ $>$ 0.20

2. -0.375 $<$ -38%

3. -0.1700 $<$ $-\frac{1}{6}$
 $-1 \div 6 = -.1666$

4. $-\frac{1}{8}$ $>$ -0.150
 $-1 \div 8 = -.125$

5. $-\frac{5}{7}$ $>$ $-\frac{4}{5}$
 $-5 \div 7 = -.71$ $-4 \div 5 = -.80$

6. $66\frac{2}{3}\%$ $<$ 0.8000
 $2 \div 3 = .66$
 $66.66\% \div 100 = .6666$