Unit 1 Lesson 4 Classify, compare, and order numbers.

E.Q.: How do I classify real numbers?

Rational #15 - A# that can be made by dividing 2 integers - iatronal - in decimal from, they end or repeat 1/2 \sqrt{36} - \text{V4} 2.38	Irrational #'5 #'s that cannot be made by : 2 integers
Integers - positive/negative wholet's Wo Fractions!3,-2,-1,0,1,2,3.	77 \ \(\sqrt{7} \)
Whole #'s (NO FRACTIONS) 0, 1, 2, 3, 4	form, the #'s do not end or replat

Examples: Identify the set(s) to which each number belongs. (Use R, IR, IN, W)

2)
$$\frac{-2}{7}$$

5)
$$-5\frac{2}{3}$$

8)
$$\frac{11}{3}$$

E.Q.: How do I compare/order numbers?

Review: Inequality signs

Sign	MEANING	EXAMPLE
>	is greater than	· .
<	is less than	e Pork
≤	is less than or equal &	a SW Jar
≥	is greater than or equal	M
≠	is not equal to	

Example: order from least to greatest: Steps to order numbers: - 1/3, .4, -6, 7/4

Express each number as a decimal

Araph them on a number

Place original H's in order according to directions

Compare using <, >, \le , and \ge . 一片, 青, 4, 至

Examples:

1) $\frac{4}{3}$ \(\leq 1.46

2) $\frac{\pi}{2} < 1\frac{3}{4}$

3) 3.97 > |-3.902|

Order from least to greatest.

7 8 -2 -3
1)
$$\sqrt{49}$$
, 8, $-\sqrt{4}$, -3

2)
$$\sqrt{8}$$
, $-\frac{2}{5}$, -1 , 0.6 , $\sqrt{6}$

3) $-\frac{8}{3}$, $-\sqrt{5}$, 2.6 , -1.5 , $\sqrt{5}$

$$-1, -\frac{2}{5}, 0.6, \sqrt{6}, \sqrt{8}$$

$$-3$$
, -4 , 49 , 8 -1 , $\frac{2}{5}$, 0.6 , $\sqrt{6}$, $\sqrt{8}$ $\frac{-8}{3}$, $-\sqrt{5}$, -1.5 , $\sqrt{5}$, 2.6