ORDERING REAL NUMBERS

STEP 1:

Read the question and determine what order the numbers should go.

- **Ascending Order** → least to greatest, increasing, min to max
- **Descending Order** → greatest to least, decreasing, max to min

STEP 2:

Separate negatives and positives.

- Ascending order means negatives come first.
- Descending order means positives come first.

STEP 3:

Convert numbers to decimals using enough digits to compare.

- If rounded values tie, compare more digits.

STEP 4:

Compare decimals and order as directed.

- Order numbers in their ORIGINAL format.
- Double check, especially if you have negatives! (smaller is "colder")

STACKING!

1.3
1.325
1.35
1.375
1.4
1.425
1.45
1.475
1.5

1 1. Order the numbers below in descending order.

4% $\frac{4}{9}$ 4.1×10^{-3} $\frac{3}{8}$ $\sqrt{0.16}$

2 2. Order the numbers below in ascending order.

$-\sqrt{25}$ 5.3 0 $-\pi$ $5\frac{1}{3}$

3 3. Order the numbers below in ascending order.

$-\frac{\sqrt{17}}{2}$ 210% 7π $3\sqrt{48}$ $2\frac{1}{6}$

4 4. Order the numbers below in descending order.

$-\frac{1}{3}$ 0 $2\sqrt{10}$ -3.6% 6.032×10^{-2}

5 5. The table shows modeled hourly changes in phone battery charge, as fractions of a full charge. List the phones in ascending order of their signed rates.

Phone Brand	Modeled Charge Change Per Hour
iPhone	-52%
Samsung	$-\frac{1}{2}$
Google	$-\sqrt{3}$
LG	-1.23