

## 3-1 Fractions and Decimals

$\frac{7}{8}$  numerator divided by denominator  
fraction bar = division bar

0.875 terminating (ends) decimal

Repeating decimal — one or more digits repeat

Bar Notation (Repeatend bar) — over the digit(s)  
that repeat

ex:  $0.1\bar{6} = 0.16666\dots$

$$2 A.) \quad -\frac{5}{6} = -0.8\bar{3}$$

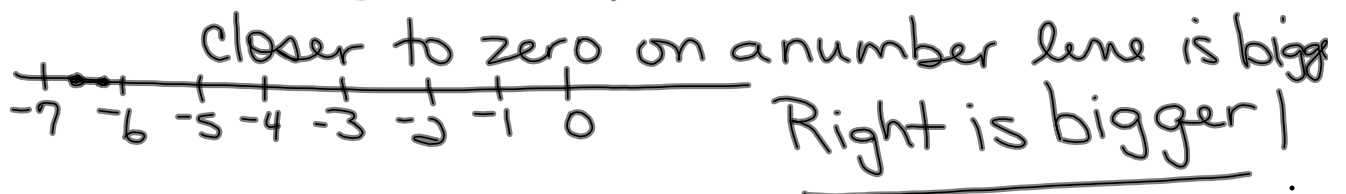
$$B.) \quad \frac{7}{9} = 0.\bar{7}$$

$$\frac{45}{56} = 0.80\overline{357142}$$

$0.804$

$$-\frac{5}{8} \quad \bigcirc \quad -\frac{6}{9}$$

$$-0.625 \quad \textcircled{>} \quad -0.\overline{66666}$$



$$\begin{array}{r} 0.87\bar{5} \\ 0.870 \end{array} > 0.87$$

$$-\frac{7}{15} < -\frac{5}{12}$$

$$-0.4\bar{6} < -0.41\bar{6}$$

$$\begin{array}{r} -0.4\bar{6} \\ -0.41\bar{6} \end{array}$$

right is bigger

be careful = Negatives!