

2-3 Comparing and Ordering Integers

* Helpful to use a # line when compare/order integers.

• When look @ # line, #s on the right are greater.

• Left is less

< less than \leq

> greater than \geq

• The further you go from zero (on neg. side) \rightarrow value smaller

Ex -100 < -50
smaller

digits more

Compare using $<$, $>$, or $=$.

1) $5 > -5$



6) $-20 < -1$

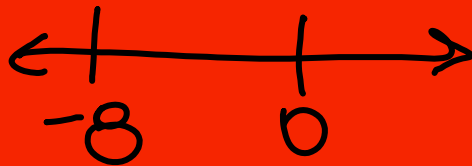
7) $\frac{|-17|}{17} > \frac{|8|}{8}$

2) $-8 = -8$

8) $-\frac{|-25|}{-25} < \frac{|25|}{25}$

3) $-4 < 4$

4) $0 > -8$

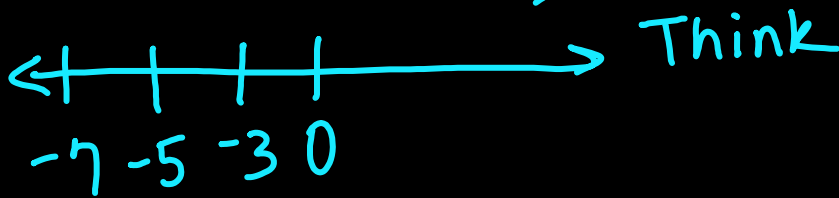


5) $-3 > -10$

Order from L \rightarrow G

*Read directions carefully!

1) $\{-5, -7, 0, -3\}$



$\{-7, -5, -3, 0\}$ *need braces

2) $\{4, -7, 7, 4\}$

$\{-7, -4, 4, 7\}$

Write an inequality to describe the situation.
Use $>$ or $<$.

H_2O boils @ $212^\circ F$ and freezes @ $32^\circ F$

$$212^\circ F > 32^\circ F$$

$$32^\circ F < 212^\circ F$$