

Absolute Value Homework 8/28/15

Determine the absolute value.

- 1)  $|-3| = \underline{3}$
- 2)  $|-3.7| = \underline{3.7}$
- 3)  $|92| = \underline{92}$

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

- 4)  $|-3| \underline{\hspace{1cm}} |3| \rightarrow 3 \underline{=} 3$
- 5)  $|-4| \underline{\hspace{1cm}} 6 \rightarrow 4 \underline{<} 6$
- 6)  $|2.6| \underline{\hspace{1cm}} |-2.7| \rightarrow 2.6 \underline{<} 2.7$
- 7)  $|-8| \underline{\hspace{1cm}} |-9| \rightarrow 8 \underline{<} 9$
- 8)  $9 \underline{\hspace{1cm}} |-9| \rightarrow 9 \underline{=} 9$

Answer the questions.

- 9) Two numbers have an absolute value of 37. Which of the two numbers is further from 1 on the number line?  
 $|-37| = 37$  and  $|37| = 37$  So, the numbers are  $-37$  and  $37$   
 $-37$  is further from 1

- 10) Keith has  $-\$190$  in his savings account. Aisha has  $\$80$  in her savings account and Sonya has  $-\$250$  in her savings account.

a) Who has the most amount of money in their savings account?

Aisha has the most money at  $\$80$ .

b) Who has the least amount of money in their savings account?

Sonya has the least amount of money at  $-\$250$ .

Determine whether the following are rational or irrational and explain why.

- 11)  $3.56326\dots$  irrational  $\rightarrow$  non-ending
- 12)  $-241$  rational  $\rightarrow$  integer
- 13)  $0.325$  rational  $\rightarrow$  terminating decimal
- 14)  $7$  rational  $\rightarrow$  natural, whole and integer
- 15)  $\frac{1}{4}$  rational  $\rightarrow$  it is fraction