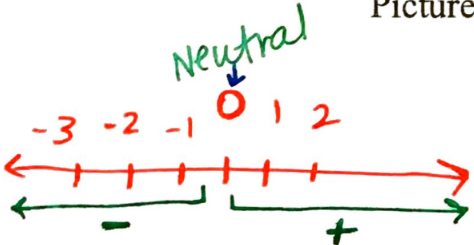


## Notes 1-2

## Int 1

## Integers and Absolute Value

## Unit 1

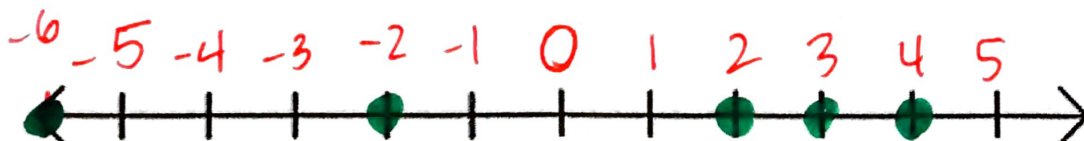
Describe it a positive or negative whole number OR 0.	Picture it 
<div style="border: 1px solid black; padding: 5px; display: inline-block;">integer</div>	
List some examples -3      5      15 100 1      0      -17 -10      -245	Non-examples $\frac{3}{4}$ $\frac{5}{3}$ $\frac{1}{2}$ 3.1415926..... $\frac{1}{3}$ 17.6 17.5      254.76321

Write an integer for each real-world situation.

- In a football game, the Mighty Lions had a loss of 11 yards. **-11**
- In the Amazon, the average rainfall for 2013 was 5 inches above normal. **5**
- Angela made a deposit of \$16 in her bank account. **\$16**
- The temperature on January 12<sup>th</sup> 2008 was 6<sup>o</sup>F. **6**

Place the following numbers on a number line.

5. -6 ✓      6. 4 ✓      7. -2      8. 3      9. 2



Less than greater than

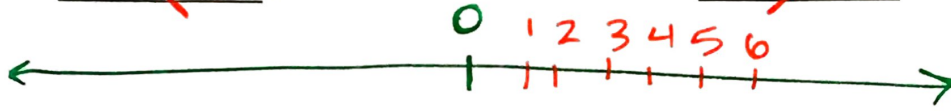
Compare each situation using the following symbols ( $<$ ,  $>$ ,  $=$ ) Equal

10.  $-6 < 6$

11.  $-7 > -9$

12.  $-11 < 5$

13.  $8 > 7$



Place the following integers in order from least to greatest.

14.  $\{\cancel{2}, 8, \cancel{1}\}$   $-7$ ,  $-2$ ,  $8$

15.  $\{\cancel{4}, 10, \cancel{3}, \cancel{7}\}$   $-4$ ,  $-3$ ,  $7$ ,  $10$

16.  $\{-2, 1, -1, 2\}$   $-2$ ,  $-1$ ,  $1$ ,  $2$

17.  $\{2, -5, 7\}$   $-5$ ,  $2$ ,  $7$

What does it mean to find the absolute value of a number?

Distance How many steps away from 0?

Grouping Symbol

Evaluate each absolute value expression.

18.  $|-7| = 7$

19.  $-|7| = -7$

20.  $-|-7| = -7$

ask.. how far away from 0 is this #?

21.  $|6| + 2 = 8$   
 $6 + 2$

22.  $|11 - 4| = 7$   
 $|7|$

23.  $|-5| + |2| = 3$   
 $5 - 2 \rightarrow$

24.  $|8 + 7| = 15$   
 $|15|$

25.  $15 - |9 - 2| = 8$   
 $15 - |7|$   
 $15 - 7$

26.  $18 + |6 \cdot 4 - 3| = 39$   
 $|24 - 3|$   
 $18 + |21|$   
 $18 + 21$