

1.1 Integers and Absolute Value – Notes

Integers: any positive or negative whole number

- numbers to the right are greater than numbers to the left on a number line

Absolute Value:

- the distance between a number and 0 on a number line
- the absolute value of a number is written as $|a|$
- distance is always a positive number (like speed in the activity)



A. Find the absolute value:

a) $|7| = 7$ b) $|-1| = 1$ c) $|-5| = 5$

d) $|14| = 14$ * e) $-|-8| = -8$ f) $-|43| = -43$

B. Compare: $>, <, =$ -7

a) $| -2 | > -1$ b) $-|-7| < 7$
2 -1

c) $|10| < 11$ d) $-40 < |40|$

e) $-5 = -|-5|$ f) $-21 < |-21|$

C. Order from least to greatest: ALWAYS write original numbers

a) ~~$|6|$~~ , ~~-7~~ , ~~8~~ , ~~$|5|$~~ , ~~-4~~ $-7, -6, |5|, |-6|, 8$
6 -7 8 5 -6

b) $| -34 |$, -21 , $| -6 |$, $-| 20 |$, -4 $-21, -|20|, -4, |-6|, |-34|$
34 -21 6 -20 -4

c) $-4, |-5|, |-4|, 3, -6$ $-6, -4, 3, |-4|, |-5|$

d) $12, -8, |-15|, -10, |-9|$ $-10, -8, |-9|, 12, |-15|$