

1.6 Learning Opportunity

Integers and Absolute Value



Name: _____

For problems 1 through 6, complete the comparisons by filling in each \bigcirc with $<$, $=$, or $>$.

1) $8 \bigcirc -3$

2) $18 \bigcirc 23$

3) $-24 \bigcirc -29$

4) $-45 \bigcirc 5$

5) $4 \bigcirc |-4|$

6) $|-6| \bigcirc -3$

7) Write two different inequalities comparing -14 to 12 .

8) After Gabbie took her cat to the veterinarian, she was told to weigh the cat each day to determine if its weight was stable. Some of the weight changes Gabbie recorded in ounces are: -1 , 0 , 3 , -4 , 5 , 1 , and 4 . Place these weight changes in order from least to greatest.



9) The table below shows the elevations, relative to sea level, of several cities. Order these cities from the greatest elevation to the least elevation.

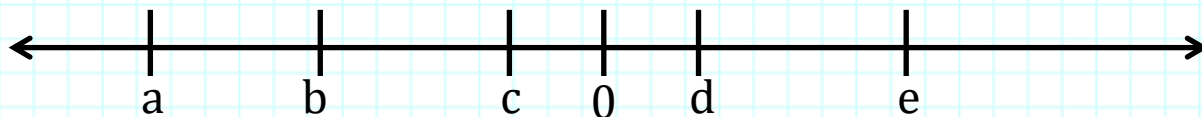
City	Boston	Cincinnati	Death Valley	Salt Lake City	San Antonio
Elevation (ft.)	16	483	-282	4,226	807

10) Arrange these integers in **descending** order: 7 , 22 , -34 , 97 , -102

11) Arrange these integers in **ascending** order: -3 , -22 , -33 , -5 , -18

12) Which two numbers have an absolute value of 16 ?

For problems 13 through 18, refer to the number line below. Complete the comparisons by filling in each \bigcirc with $<$, $=$, or $>$. Consider the locations of each value on the number line in relation to the origin (zero) near the center of the number line.



13) $a \bigcirc b$

14) $d \bigcirc c$

15) $b \bigcirc e$

16) $|a| \bigcirc d$

17) $a \bigcirc |d|$

18) $|a| \bigcirc |d|$