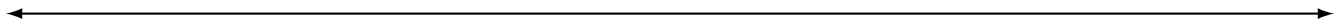


Let's scale the number line below, and place the letters a, b, c, and d in the correct place.



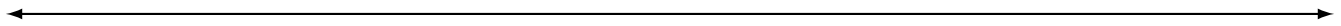
$a = -2.5$

$b = 1.25$

$c = -1.5$

$d = 0$

Now, again, let's scale the number line below, and place the letters a, b, c, and d in the correct place.



$a = -2.25$

$b = 3.1$

$c = 0.9$

$d = -1.75$

The *absolute value* of a number is the distance from zero on a number line. Let's evaluate some absolute values:

$|2|$

$|-2|$

$|100|$

$|-100|$

Finally, let's evaluate each of the following square roots:

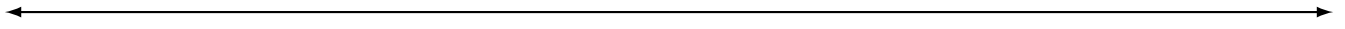
$-\sqrt{9}$

$\sqrt{81}$

$-\sqrt{144}$

$\sqrt{49}$

1. Scale the number line below and place the letters a, b, c, and d in the correct place.



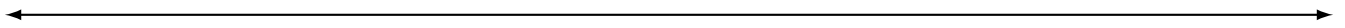
$$a = |-3|$$

$$b = |2|$$

$$c = -1.5$$

$$d = -\sqrt{1}$$

2. Scale the number line below and place the letters a, b, c, and d in the correct place.



$$a = -\sqrt{9}$$

$$b = \sqrt{4}$$

$$c = |-1|$$

$$d = |0|$$

3. Compare each pair of numbers. Write $<$, $>$ or $=$.

(a) $2 \bigcirc -2$

(b) $-4 \bigcirc -5$

(c) $-99 \bigcirc -100$

(d) $0 \bigcirc 1$

(e) $-1.5 \bigcirc -2$

(f) $-5.5 \bigcirc -5$

(g) $|-2| \bigcirc |2|$

(h) $|-4| \bigcirc |3|$

(i) $|-1| \bigcirc -1$

4. Write each set of numbers in order, from least to greatest.

(a) $-4, 2, 0, -6, -1.3$

(b) $-2.5, 0, |-2|, -3$

(c) $-1.25, 2.25, -\sqrt{9}, 1.5$
