Topic: Absolute value

Question: Which list is ordered from least to greatest?

Answer choices:

A $\quad |-1|, |0|, |-5|, |7|$

B $\quad |-5|, |-1|, |0|, |7|$

C $\quad |0|, |-1|, |-5|, |7|$

D $\quad |7|, |0|, |-1|, |-5|$

Solution: C

Absolute value is the same as "distance from the origin," so $|-1| = 1$, $|0| = 0$, $|-5| = 5$, and $|7| = 7$.

Therefore, ordering the numbers from least to greatest gives

$$|0|, |-1|, |-5|, |7|$$

Topic: Absolute value

Question: Which number doesn't have an absolute value of 0.4?

Answer choices:

A 0.4

B 4

C -0.4

D $\dfrac{2}{5}$

Solution: B

Absolute value is the same as "distance from the origin," so the absolute value of each answer choice is

A $\quad |0.4| = 0.4$

B $\quad |4| = 4$

C $\quad |-0.4| = 0.4$

D $\quad \left|\dfrac{2}{5}\right| = \dfrac{2}{5} = \dfrac{4}{10} = 0.4$

Topic: Absolute value

Question: Find the absolute value.

$$|12.5|$$

Answer choices:

A   12.5

B -12.5

C   125

D   0

Solution: A

Absolute value is the same as "distance from the origin," and 12.5 is twelve and a half units from the origin on the number line, so $|12.5| = 12.5$.