When setting up a word problem involving absolute, the absolute value represents a distance from a point.

Absolute value is used when the solution can be above or below a _______ value.

To solve isolate the absolute value expression.

Set up two equations set equal to ± of the right side of the equal sign.

|\(x - 32\)| = 0.5

|\(x - 7\)| = 5

|\(x - 3|\) ≥ 2

If \(>\) or \(\ge\) use ________

If \(<\) or \(\le\) use ________

A packing machine puts 32 oz of product in a container with a margin of error of 0.5 oz. What are the acceptable maximum and minimum weights of the contents?

|\(x - 32\)| = 0.5

Bottles manufactured in a certain factory have a volume of 250 ml with a margin of error of 20 ml. Write an inequality that can be used to assess if the bottles are usable?

|\(V - 250\)| ≤ 20

|\(V - 250\)| ≤ 20

|\(x - 3|\) ≤ 4

If \(<\) or \(\le\) use ________