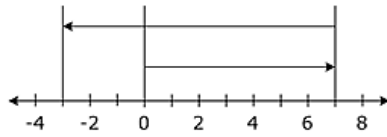


## Possible Solutions

Jackson drew the following model of a number line to solve an equation.



What equation is Jackson solving?

To solve this problem,

- Look carefully at the model to determine what operations are symbolized by the arrows. In this case, an arrow pointing toward the right (getting larger) and an arrow pointing to the left (getting smaller). Traditionally, getting larger is a representation of addition and getting smaller is a representation of subtraction.
- Students need to look at where each arrow ends. The first arrow ends at the number 7. The second arrow ends at the number -3. These ending points correspond to the digits used in the algorithm.
- Students need to decide how to set up the equation. In this case, they started at 0 and stopped at 7, then moved backwards to -3. The distance between 7 and -3 would be the amount being “taken away.”
- Therefore, the equation symbolized is  $7 - (-10) = -3$ .