

Lesson 1: Describing and Graphing Situations

Cool Down: The Backyard Pool

A parent is using a garden hose to fill up a small inflatable pool for her young child. The pool has a capacity of 90 gallons. She turns the water off after 5 minutes, but leaves the hose in the pool for another 3 minutes before putting it away.

In this situation, the relationship between the gallons of water in the pool and the 8 minutes since the parent started filling the pool can be seen as a function.

1. In that function, which variable is independent? Which one is dependent?

2. Write a sentence of the form “_____ is a function of _____.”

3. Sketch a possible graph of the relationship on the coordinate plane. Be sure to label and indicate a scale on each axis.

