

Read and Interpret: Linear Equations

Purpose

Read linear equations in slope-intercept form in context.

Process

1. Individually, get started reading and interpreting the equations.
2. In pairs, choose all of the statements that are true about the equations.

Use the *Model a Linear Relationship* tool as a resource.

Activity Instructions

Minnesota is known as the land of 10,000 lakes. (Fun fact: There are 11,842 lakes in Minnesota.)

These equations model the depth of two lakes in Minnesota (x is the number of months since the beginning of the year; y is the depth of the lake in feet):

Depth of Lake Vista: $y = 0.2x + 47$

Depth of Lake Elm: $y = -0.3x + 77$

Choose all statements that are true for these equations.

- a. At the very beginning of the year, Lake Vista was -0.3 feet deep.
- b. At the very beginning of the year, Lake Elm was 47 feet deep.
- c. Lake Vista was deeper at the beginning of the year than Lake Elm.