

Comparing Two Linear Functions using Tables and Algebraic Equations

Patrick and Leonard are brothers who each have money saved. The amount of money, y dollars, that each brother has left in savings after x weeks is a linear function. Patrick's function is represented by a table, and Leonard's function is represented by an equation.

Function 1- Analyze Table to find Rate of Change

Function 2- Analyze Algebraic Equation

Patrick's Savings

Number of Weeks (x)	0	5	15	20
Amount of Money (y dollars)	200	175	125	100

Leonard's Savings

Let x be the number of weeks.

Let y be the amount of savings Leonard has left after x weeks.

Amount of money: $y = 250 - 10x$

a) Write an algebraic equation to represent Patrick's linear function.

b) Use a verbal description to compare the two functions.

