Slopes, Vertical Intercepts, and Graphs
Situation A

Lin's dad bought a tablet. He pays the same amount each month for a subscription to a movie streaming service. The graph represents how much money he spent, y, for the tablet and x months of the service. The slope of the line is 10.

Slopes, Vertical Intercepts, and Graphs
Situation B

The graph represents the perimeter, y, of a square whose side length is x. The slope of the line is 4.

Slopes, Vertical Intercepts, and Graphs
Situation C

Diego puts his piggy bank on his desk. Each week he adds the same amount of money to his bank. The graph represents the amount in the piggy bank, y, after x weeks. The slope of the line is 5.

Slopes, Vertical Intercepts, and Graphs
Situation D

Noah starts his piggy bank off with money he's saved helping a neighbor out. Each month he adds the same amount of money to his bank. The graph represents the amount in the piggy bank, y, after x months. The slope of the line is 15.

Slopes, Vertical Intercepts, and Graphs
Situation E

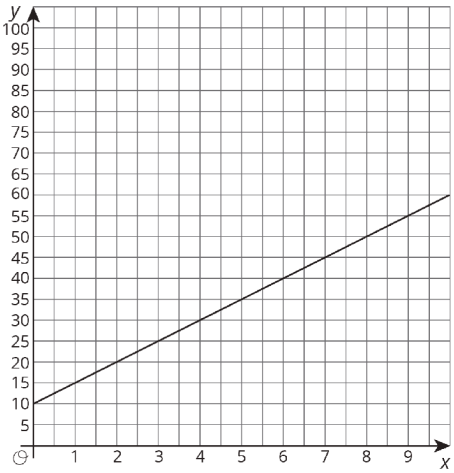
Elena adds a quarter to her piggy bank every day. The graph represents the number of dollars, y, in her piggy bank x days after she put the piggy bank in the closet. The slope of the line is 0.25.

Slopes, Vertical Intercepts, and Graphs
Situation F

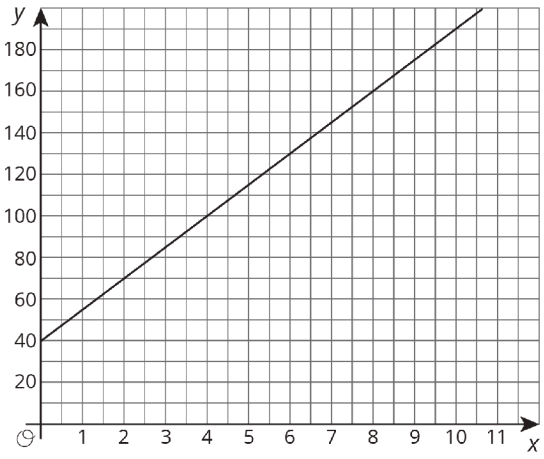
Lin's mom pays the same amount each month for internet service for her business tablet. The graph represents how much money she spent, y, for x months of service. The slope of the line is 40.

CC BY NC Illustrative Mathematics, based on IM 6–8 Math, CC BY Open Up Resources.

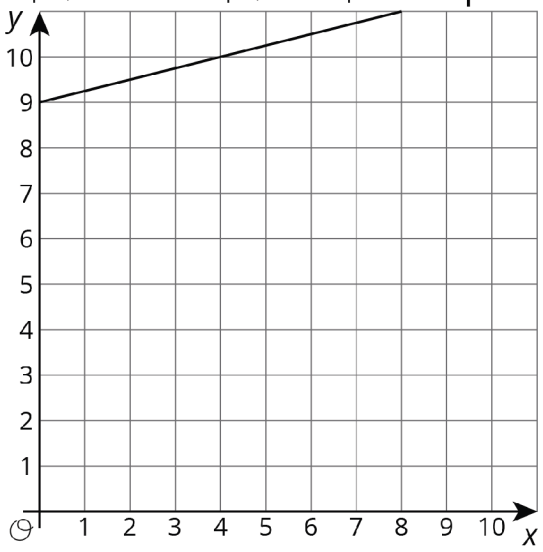
Slopes, Vertical Intercepts, and Graphs - Graph 1



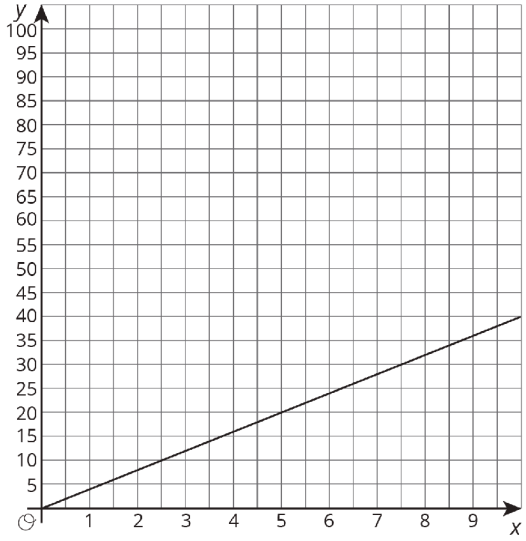
Slopes, Vertical Intercepts, and Graphs - Graph 3



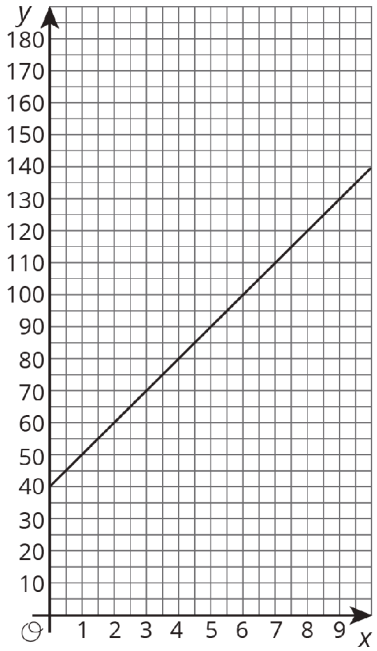
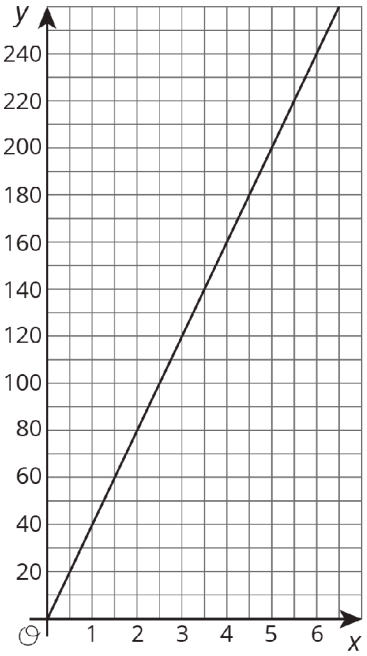
Slopes, Vertical Intercepts, and Graphs - Graph 5



Slopes, Vertical Intercepts, and Graphs - Graph 6



Slopes, Vertical Intercepts, and Graphs - Graph 2



Slopes, Vertical Intercepts, and Graphs - Graph 4