

Exercises

1. Sarah is purchasing pencils to share. Each package has 12 pencils. The equation $n = 12p$, where n is the number of pencils and p is the number of packages can be used to determine the total number of pencils Sarah purchased. Determine which variable is dependent and which is independent. Then make a table showing the number of pencils purchased for 3–7 packages.

2. Charlotte reads 4 books each week. Let b be the number of books she reads each week and let w be the number of weeks that she reads. Determine which variable is dependent and which is independent. Then write an equation to model the situation, and make a graph that shows the number of books read in under 6 weeks.

3. Ania started with \$10. She saved an additional \$5 each week. Write an equation that can be used to determine the total amount saved, t , after a given number of weeks, w . Determine which variable is independent and which is dependent. Then graph the total amount saved for first 8 weeks.

4. Aliyah is purchasing produce at the farmers' market. She plans to buy \$10 worth of potatoes and some apples. The apples cost \$1.50 per pound. Write an equation to show the total cost of the produce, where T is the total cost and a is the number of pounds of apples. Determine which variable is dependent and independent. Then graph the equation on the coordinate plane.

