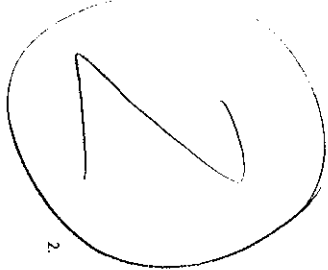


2. Zoe is collecting books to donate. She started with 3 and collects two more each week. She is using the equation  $b = 2w + 3$ , where  $b$  is the total number of books collected and  $w$  is the number of weeks she has been collecting. Name the independent and dependent variables. Then create a graph to represent how many books Zoe has collected when  $w$  is 5 or less.





3. Eliana plans to visit the fair. She must pay \$5 to enter the fair grounds and an additional \$3 per ride. Write an equation to show the relationship between  $r$ , the number of rides, and  $t$ , the total cost. State which variable is dependent and which is independent. Then create a graph that models the equation.



1. Caleb started saving money in a cookie jar. He started with \$27. He adds \$10 to the account each week. Write an equation where  $w$  is the number of weeks and  $t$  is the total amount in the account. Determine which variable is independent and which is dependent. Then graph the total amount in the account for  $w$  being less than 6 weeks.



2. Kevin is taking a taxi from the airport to his home. There is a \$6 flat fee for riding in the taxi. In addition, Kevin must also pay \$1 per mile. Write an equation where  $m$  is the number of miles and  $t$  is the total cost of the taxi ride. Determine which variable is independent and which is dependent. Then graph the total cost for  $m$  being less than 6 miles.



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Lesson 32  
Date: 12/16/13

Multi-Step Problems in the Real World



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