

- 1) In order to join a dancing club, there is a \$30 startup fee and a \$4 monthly fee.
- Define x and y .
 - Write a linear equation for the total cost.
- b. If Ms. Draper joins the club for 6 months, how much will she spend in all?
- c. How many months was Ms. Draper a member of the club if she spent \$62?
- 2) Cameron is designing a calendar as a fundraising project for math class. The cost of printing is \$500, plus \$2.50 per calendar.
- Define x and y .
 - Write a linear equation for the total cost.
- b. If Cameron sells 200 calendars, how much will the total cost be?
- c. If the total cost is \$600, how many calendars did he print?
- d. Cameron plans to sell the calendars for \$5 each. How many calendars must he sell in order to earn more than they cost? ****CHALLENGE QUESTION****

- 3) An airplane is 30,000 feet above ground and begins descending at a rate of 2,000 feet per minute.
- Define x and y .
 - Write a linear equation for the plane's elevation.
- b. If the plane has descended for 10 minutes, what is its elevation?
- c. If the plane is at an elevation of 4,000 feet, how long has it been descending?
- 4) You bought a magazine for \$5 and four erasers. You spent a total of \$25. How much did each eraser cost? Define your variable. Write and solve a linear equation for the scenario.
- 5) Shienne won 40 bouncy balls playing horseshoes at her school's game night. Later, she gave two to each of her friends. She only has 8 remaining. How many friends did she give to? Define your variable. Write and solve a linear equation for the scenario.
- 6) For a field trip, 4 students rode in cars and the rest filled nine buses. How many students were in each bus if 472 students were on the trip? Define your variable. Write and solve a linear equation for the scenario.