

## Equations arising from scenarios

1. Elena has some money. After spending \$23, she has \$18 left. How much money did Elena have at first?
  - (a) Draw a picture to go with the problem.
  - (b) Solve the problem.
  - (c) Which equation goes with the problem if  $E$  stands for the amount of money Elena had at first? Explain your answer.

$$23 - 18 = E, \quad 18 - E = 23, \quad E - 23 = 18$$

- (d) Show  $E$  in your picture for part 1 (where  $E$  stands for the amount of money Elena had at first).
2. Chris had some Skittles. After getting another 27 Skittles, Chris had 53 Skittles in all. How many Skittles did Chris have at first?
    - (a) Draw a picture to go with the problem.
    - (b) Solve the problem.
    - (c) Explain how the equation  $C + 27 = 53$  is related to the problem about Chris's Skittles.
    - (d) Solve the equation  $C + 27 = 53$ .

3. Asia had some money. After getting another \$37, Asia had \$51 in all. How much money did Asia have at first?
  - (a) Draw a picture to go with the problem.
  - (b) Solve the problem.
  - (c) Which equation goes with the problem if  $A$  is the amount of money Asia had at first?

$$A + 37 = 51, \quad 37 + 51 = A, \quad A - 37 = 51$$