

## LESSON 26 Practice

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1. A taxi company charges an initial fee of \$8 plus \$1.50 per mile.
  - a. Write an equation representing the total cost,  $y$ , of riding a taxi for  $x$  miles.
  - b. How much will a taxi ride cost for 20 miles?
  - c. If a taxi ride cost \$29, how many miles did the taxi travel?
  
2. A water tank with 360 gallons of water is being emptied at a rate of 9 gallons per minute.
  - a. Write an equation representing the amount of water,  $y$ , in the tank after  $x$  minutes.
  - b. How much water will be in the tank after 15 minutes?
  - c. How long will it take to empty the tank?
  
3. An online bookstore sells magazines for \$2.50 each. The shipping cost is \$7 for the whole order.
  - a. Write an equation representing the total cost,  $y$ , of ordering  $x$  magazines.
  - b. How much will it cost to order 12 magazines?
  - c. If you have \$62, how many magazines can you order?
  
4. A mountain climber starts descending from 750 feet above sea level at an average speed of 30 feet per hour.
  - a. Write an equation representing the climber's elevation,  $y$ , after  $x$  hours.
  - b. What is the elevation of the climber after 6 hours of descending?
  - c. How long will it take the climber to reach sea level?
  
5. An airplane 32,000 feet above the ground begins descending at an average speed of 1,200 feet per minute.
  - a. Write an equation representing the altitude,  $y$ , of the plane after  $x$  minutes.
  - b. What is the altitude of the plane after 10 minutes of descending?
  - c. How long will it take the plane to reach an altitude of 26,000 feet?
  
6. Tom has \$2,800 in his bank account. Every month, Tom's company deposits his salary of \$6,700, and his rent of \$1,200 is withdrawn automatically.
  - a. Write an equation representing the balance,  $y$ , of his account in  $x$  months.
  - b. What will be the balance in 3 months?
  - c. How long will it take his balance to go over \$50,000?