



# Problem Solving: Reading for Math

## Check for Reasonableness

Choose the correct answer.

The stage is 31 feet long. The director says the stage is more than 10 yards long. Is this statement reasonable?

- Which of these statements is true?
  - The stage is 11 yards long.
  - The stage is 12 yards long.
  - The stage is 31 feet long.
  - The stage is 36 inches long.
- The director's statement is reasonable because
  - 30 feet is less than 10 yards.
  - 30 feet equals 10 yards.
  - 31 feet equals 10 yards.
  - 31 feet equals 11 yards.

The television cabinet is 78 inches high. Mary says this is more than 7 feet high. Is this statement reasonable?

- Which of these statements is true?
  - The cabinet is 7 feet high.
  - The cabinet is 8 feet high.
  - The cabinet is more than 8 feet high.
  - None of the above
- Mary's statement is not reasonable because
  - 78 inches is less than 7 feet.
  - 78 inches is equal to 7 feet.
  - 78 inches is greater than 7 feet.
  - 78 inches is greater than 8 feet.

The refreshment stand sells 36 quarts of punch. Ms. Spencer says the stand sells 9 gallons of punch. Is this statement reasonable?

- Which of the following is important to solving this problem?
  - There are 2 gallons in a quart.
  - There are 4 gallons in a quart.
  - There are 2 quarts in a gallon.
  - There are 4 quarts in a gallon.
- Ms. Spencer's statement is reasonable because
  - You divide quarts by 2 to find gallons.
  - You divide quarts by 4 to find gallons.
  - You multiply quarts by 2 to find gallons.
  - You multiply quarts by 4 to find gallons.