

#1. In a survey, students were asked if they preferred apples or oranges. 60% of the students preferred apples.

- What percent of the students preferred oranges?
- What is the ratio of students who preferred apples to those who preferred oranges?
- If 90 students preferred apples, how many students responded to the survey? Show your work or explain how you found your answer.

# 2. The attendance at Tuesday's soccer game was 150% of what it was on Monday. There were 75 people in attendance on Tuesday. How many people attended on Monday?

- 225
- 112
- 50
- 20

#3. An item at a store is marked 45% off. What percent of the original price will the item cost?

- 0.55%
- 45%
- 55%
- It depends on the original price of the item.

# 4. There are 410 students at West Middle School. Through a survey, Mr. Frasier's class found that 30% of the students are **not** involved in extracurricular activities.

- What percent of students **are** involved in extracurricular activities?
- How many students are involved in extracurricular activities?

#5. At the Math Brain Bowl, the team from Maplewood Middle School won first place. The team can choose one of the following prizes:

- 75% of \$440,
- 45 of \$450, or
- $1.5 \times \$250$ .

How much would the team receive if it selected the prize that offered the most money? Show your computations or explanations for all three prizes to show how you found your answer.

#6. In 1970, the population of Maine was approximately 1 million. It is now reported to be approximately 1.2 million. What is the **percent of increase** in population since 1970?

- A. 2%
- B. 12%
- C. 20%
- D. 83%

#7. How does 80% of a positive number compare with the original number?

- A. It is equal to that number.
- B. It is greater than that number.
- C. It is less than that number.
- D. It depends on the number.

#8. Marvin purchased the following items:

- shirt for \$16.20
- slacks for \$21.50
- socks for \$2.80

If the sales tax is 6%, what is his total bill?

- A. \$ 2.43
- B. \$24.30
- C. \$42.93
- D. \$48.38

#9. The total land area of Maine is 33,215 square miles. Maine's largest county, Aroostook, is 6,453 square miles. Approximately what percent of the land area of Maine is in AroostookCounty?

- A. 10%
- B. 20%
- C. 30%
- D. 40%