

Percentages

SHOW ME THE WAY

A. Roman makes \$50 per week and spends 40% of his income on entertainment. How much does he spend?

Strategic Steps

1 First, convert the percentage to a decimal. This is done by dropping the percentage sign and moving the decimal point two places to the left.

$$40\% = 0.40$$

2 Multiply the decimal by the amount.

$$\$50 \times 0.40 = \underline{\hspace{2cm}} \text{ amount spent on entertainment}$$

B. North Middle School has an enrollment of 3,500 students in sixth through eighth grade. Seventy-five percent of these students are seventh and eighth grade students. How many students are in the sixth grade?

Strategic Steps

1 First, convert the percentage to a decimal.

$$75\% \text{ equals } 0.75$$

2 Multiply the decimal by the number.

$$3,500 \times 0.75 = \underline{\hspace{2cm}} \text{ number of other students}$$

3 Subtract the number of seventh and eighth grade students from the total students.

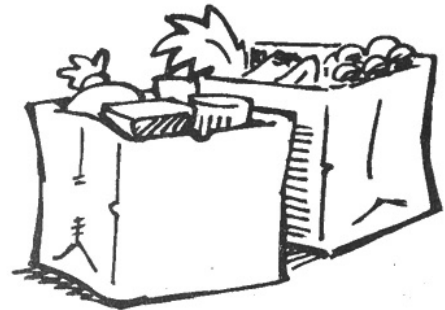
$$3,500 - \underline{\hspace{2cm}} \text{ (number of other students)} = \underline{\hspace{2cm}} \text{ number of sixth grade students}$$

Percents Are Fun

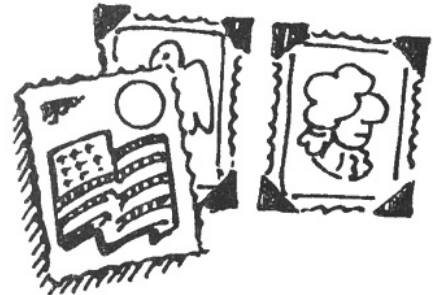
- A.** Patrick has 350 baseball cards. Thirty-five percent of them are gifts from his parents. How many cards have his parents bought for him? (Round to the nearest whole number.)



- B.** Jimmy is helping plan the class' week-long camping trip. The trip will cost a total of \$1,500. Exactly 60% will be used for the camp fees and other supplies; the remaining amount will be used for food. How much will the food cost?



- C.** Cyrus collects stamps. He has 478 stamps in his collection. Twenty-five percent of the stamps are from countries other than the United States. How many United States stamps does he have? (Round to the nearest whole number.)



- D.** Rose plays clarinet in the school band. There are 76 students in the band and 20% play woodwind instruments. How many students play non-woodwind instruments? (Round to the nearest whole number.)

