

LESSON
2-11**Problem Solving****Percent Increase and Decrease****Write the correct answer.**

1. The entrance fee at an art museum is \$22. Senior citizens receive a 15% discount. How much do seniors pay?

2. Kylie paid \$38.62 to fill the gas tank of her Jeep. Two weeks ago, she paid \$34.18 to fill the tank. Find the percent increase.

3. In 2001, the population of Barbados was approximately 275,000. In 2002, the population increased by 0.5%. What was the approximate population of Barbados in 2002?

4. A shoe salesman marked up a pair of sandals in the spring by 75% and advertised them for \$42.00. In the fall, he put them on sale at a 30% discount. What was the original price of the sandals, before the markup? How much were they selling for after the fall discount?

Use the table below to answer questions 5–7. The table shows the U.S. population by region as given in the 1990 and 2000 Census. Select the best answer.

5. By what percent did the population of the South increase from 1990 to 2000?
A 14.8% C 18.6%
B 17.3% D 19.8%
6. By what percent did the population of the West increase from 1990 to 2000?
F 16.5% H 19.7%
G 18.1% J 21.1%
7. Which statement is NOT true?
A The percent increase in the West was twice that of the Northeast.
B The Northeast had the smallest percent change.
C The South had the greatest increase in population.
D All regions had a percent increase

Region	Population (1990)	Population (2000)
Northeast	50,809,229	53,594,378
Midwest	59,668,632	64,392,776
South	85,445,930	100,236,820
West	52,786,082	63,197,932

