

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

$$\frac{\textit{change}}{\textit{original}} \times 100$$

1. Joe's weekly pay increased from \$80 to \$100. What is the percent increase in his weekly pay?

- A** 40%                      **B** 25%                      **C** 20%                      **D** 10%

2. In January, the students in a class read 72 books. In February, they read 56 books. What was the approximate percent decrease in the number of books read from January to February?

- A** 8%                      **B** 16%                      **C** 22%                      **D** 29%

3. The price of gas rose from \$2.40 per gallon in January to \$3.00 per gallon in April. What was the percent increase based on the original price?

- A** 20%                      **B** 25%                      **C** 60%                      **D** 80%

4. A shirt originally cost \$24.99. It was on sale for \$19.99. What was the percent decrease in the price of the shirt?

- A** 5%                      **B** 10%                      **C** 20%                      **D** 25%

5. A rectangular parking lot is 75 feet wide and 150 feet long. The owner wants to increase the width by 100 feet. What is the approximate percent increase in the area of the parking lot?

- A** 75%                      **B** 100%                      **C** 133%                      **D** 150%

### **Challenge Problem**

6. The price of an item decreased by 10% each week for 4 weeks. What was the approximate percent of decrease of the price of the item after 4 weeks?
- A** 34%                      **B** 40%                      **C** 60%                      **D** 66%
7. An apartment that rented for \$750 per month in 2005 was rented for \$825 in 2006. What was the percent increase in rent?
- A** 1.1%                      **B** 10.0%                      **C** 75.0%                      **D** 100.1%
8. The price of a pair of jeans decreases from \$45 to \$40. What is the approximate percentage of decrease?
- A** 1%                      **B** 11%                      **C** 13%                      **D** 89%
9. The value of an investment increased from \$750 to \$795. By which percentage did the value of the investment increase?
- A** 94.3%                      **B** 45.0%                      **C** 6.0%                      **D** 5.7%
10. Over the past few years, Michael has increased his fee for mowing lawns from \$5.00 per hour to \$11.00 per hour. What percent did Michael's fee increase?
- A** 6%                      **B** 120%                      **C** 220%                      **D** 320%
11. The price of a book is marked down from \$12.50 to \$10.00. What is the percent of decrease, before tax?
- A** 20%                      **B** 25%                      **C** 40%                      **D** 80%

**12.** Bill had a salary of \$48,000 last year. This year his salary is \$49,920. What is the percent increase in Bill's salary?

- A** 2%                      **B** 3%                      **C** 4%                      **D** 5%

**13.** Mario earned a raise that increased his hourly pay rate from \$8 to \$10. What was the percent increase in Mario's hourly pay rate?

- A** 20%                      **B** 25%                      **C** 56%                      **D** 80%

**14.** Owen has a 4 in. x 6 in. photograph. He wants to enlarge the photograph to an 8 in. x 10 in. size. What would be the approximate percent increase in the area of the photograph?

- A** 30%                      **B** 70%                      **C** 233%                      **D** 333%

**15.** In 1992, the population in a town was 8,000 people. In 1997, the population was 14,000. What was the percent increase in the population?

- A** 14%                      **B** 43%                      **C** 57%                      **D** 75%

**16.** A stereo that normally sells for \$125 is on sale for \$90. By what percent has the price of the stereo been reduced?

- A** 28%                      **B** 35%                      **C** 39%                      **D** 72%

**17.** A new automobile costs \$23,782, but after one year it is worth \$17,668. What is the approximate percent of decrease in the value of the automobile?

- A** 6%                      **B** 26%                      **C** 33%                      **D** 75%

[Note: This type of decrease in the value of a product or a building is called "depreciation"]

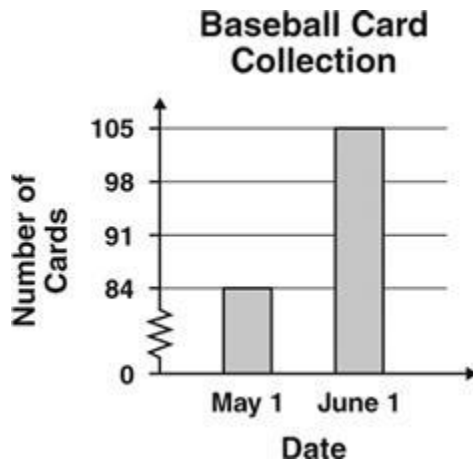
18. Marcello is investigating plant growth. The flowers he planted in his garden were expected to grow two inches in one year. This year there was more rainfall, so the flowers grew three inches. What percentage more did the flowers grow than was expected?

- A 25%                      B 50%                      C 75%                      D 100%

19. Jason had been working 20 hours per week at a book store for \$8.00 per hour. His pay was increased to \$8.50 per hour, and his hours were increased to 24 per week. By what percent did his total weekly pay increase as a result of these changes?

- A 6.25%                      B 20.00%                      C 27.50%                      D 44.00%

20. The graph below shows the number of baseball cards Jimmy had in his collection on May 1 and on June 1.



What was the percent increase in the number of cards from May 1 to June 1?

- A 20%                      B 21%                      C 25%                      D 30%

21. Erica saw a skateboard on sale for \$59.95. The original price of the skateboard was \$79.95. What is the *approximate* percent discount on the skateboard?

- A 20%                      B 25%                      C 75%                      D 80%