

UNIT 15 EXERCISES 6-10

PERCENT

- 2008A 6. Heather compares the price of a new computer at two different stores. Store A offers 15% off the sticker price followed by a \$90 rebate, and store B offers 25% off the same sticker price with no rebate. Heather saves \$15 by buying the computer at store A instead of store B. What is the sticker price of the computer, in dollars?
- (A) 750 (B) 900 (C) 1000 (D) 1050 (E) 1500
- 2010B 6. At the beginning of the school year, 50% of all students in Mr. Wells' math class answered "Yes" to the question "Do you love math", and 50% answered "No." At the end of the school year, 70% answered "Yes" and 30% answered "No." Altogether, $x\%$ of the students gave a different answer at the beginning and end of the school year. What is the difference between the maximum and the minimum possible values of x ?
- (A) 0 (B) 20 (C) 40 (D) 60 (E) 80
- 2013A 6. In a recent basketball game, Shenille attempted only three-point shots and two-point shots. She was successful on 20% of her three-point shots and 30% of her two-point shots. Shenille attempted 30 shots. How many points did she score?
- (A) 12 (B) 18 (C) 24 (D) 30 (E) 36

- 2009B 7. In a certain year the price of gasoline rose by 20% during January, fell by 20% during February, rose by 25% during March, and fell by $x\%$ during April. The price of gasoline at the end of April was the same as it had been at the beginning of January. To the nearest integer, what is x ?
- (A) 12 (B) 17 (C) 20 (D) 25 (E) 35
- 2004A 9. A company sells peanut butter in cylindrical jars. Marketing research suggests that using wider jars will increase sales. If the diameter of the jars is increased by 25% without altering the volume, by what percent must the height be decreased?
- (A) 10 (B) 25 (C) 36 (D) 50 (E) 60
- 2007B 10. Some boys and girls are having a car wash to raise money for a class trip to China. Initially 40% of the group are girls. Shortly thereafter two girls leave and two boys arrive, and then 30% of the group are girls. How many girls were initially in the group?
- (A) 4 (B) 6 (C) 8 (D) 10 (E) 12
- 2017B 10. At Typico High School, 60% of the students like dancing, and the rest dislike it. Of those who like dancing, 80% say that they like it, and the rest say that they dislike it. Of those who dislike dancing, 90% say that they dislike it, and the rest say that they like it. What fraction of students who say they dislike dancing actually like it?
- (A) 10% (B) 12% (C) 20% (D) 25% (E) $33\frac{1}{3}\%$