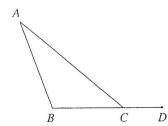
- 7. What is the least common denominator for adding the fractions  $\frac{4}{15}$ ,  $\frac{1}{12}$ , and  $\frac{3}{8}$ ?

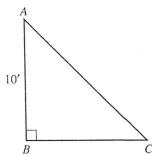
  - A. B. 120
  - C. 180
  - D. 480
  - E. 1,440
- 8. The product  $(2x^4y)(3x^5y^8)$  is equivalent to:
  - **F.**  $5x^9y^9$
  - **G.**  $6x^9y^8$
  - **H.**  $6x^9y^9$
  - J.  $5x^{20}y^8$
  - **K.**  $6x^{20}y^8$
- 9. It costs a dollars for an adult ticket to a reggae concert and s dollars for a student ticket. The difference between the cost of 12 adult tickets and 18 student tickets is \$36. Which of the following equations represents this relationship between a and s?
  - **A.**  $\frac{12a}{18s} = 36$
  - **B.** 216as = 36
  - C. |12a 18s| = 36
  - **D.** |12a + 18s| = 36
  - E. |18a + 12s| = 36
- 10. If x > 1, then which of the following has the LEAST value?
  - F.  $\sqrt{x}$
  - G.  $\sqrt{2x}$
  - H.  $\sqrt{x \cdot x}$
  - J.  $x\sqrt{x}$
  - $\mathbf{K}. \ x \cdot x$
- 11. Charles defined a new operation, ♦, on pairs of ordered pairs of integers as follows:  $(a,b) • (c,d) = \frac{ac + bd}{ab - cd}$ What is the value of  $(2,1) \spadesuit (3,4)$ ?
  - **A.** −2 **B.** −1

  - C. 2
  - 5 D.
  - E. 10

12. In the figure below,  $\angle BAC$  measures 30°,  $\angle ABC$  measures 110°, and points B, C, and D are collinear. What is the measure of  $\angle ACD$ ?



- F. 150°
- G. 140°
- **H.** 130°
- J. 120° K. 110°
- 13. In the isosceles right triangle below, AB = 10 feet. What is the length, in feet, of  $\overline{AC}$ ?



- В. 10
- **D.**  $\sqrt{20}$
- **E.**  $10\sqrt{2}$
- 14. In a bag of 400 jelly beans, 25% of the jelly beans are red in color. If you randomly pick a jelly bean from the bag, what is the probability that the jelly bean picked is NOT one of the red jelly beans?

  - K.  $\frac{15}{16}$

Bellwork Answers

7. B

8. H

9. C

10. F

// B

12. G

13. E

14. H