

# 1 Topic Assessment Form B

1. Suppose  $f$ ,  $g$ , and  $\frac{1}{h}$  are all rational numbers. Is  $\frac{fg-h}{\sqrt{h^2}}$  a rational number? Explain your answer.

- (A) No; the denominator could be 0, so the result may not be rational.
- (B) Yes; the square and square roots cancel out, leaving a non-zero rational denominator.
- (C) No; a quotient of rational numbers is not always rational.
- (D) There is not enough information to answer the question.

2. Select all the expressions that will result in a rational number.

- A.  $\frac{15}{24} + \frac{\sqrt{12}}{3}$        D.  $\frac{5}{6} - \frac{\sqrt{36}}{3}$
- B.  $\frac{15}{24} \times \frac{\sqrt{12}}{3}$        E.  $\frac{5}{6} \div \frac{\sqrt{36}}{3}$
- C.  $\frac{15}{24} \times \sqrt{12}$

3. What is the value of  $2x$  in this equation?

$$3(2x - 5) - 4x + 8 = -2x + 1$$

- (A) -1       (B) 4
- (C) -4       (D) 8

4. Three bags contain three consecutive even numbers of marbles. There are 72 marbles in total. How many marbles are in each bag?

Write the numbers from least to greatest.

      

5. LaTanya buys 5 yards of blue fabric and 8 yards of green fabric. The blue fabric costs \$2 more per yard than the green fabric. She pays a total of \$62. What would be the combined cost of 1 yard of blue fabric and 1 yard of green fabric?

- (A) \$6       (C) \$9
- (B) \$10       (D) \$14

6. Steven buys 6 movie downloads. The total cost is \$3 above or below \$35. Write an equation that models the cost  $x$ , in dollars, of each movie download.

$$|35 - 6x| - 3 = 0$$

7. Corey combines  $x$  pounds of herbal tea at \$12 per lb with 8 pounds of green tea at \$9 per lb. He makes a mixture that averages \$10.50 per lb. Which equation models the situation?

- (A)  $12 + x = 27.50$
- (B)  $12x + 8 = 78$
- (C)  $12x + 72 = 10.50(x + 8)$
- (D)  $12x + 72 = 11.25(x + 8)$

8. Find the values of  $x$  in the equation.
- $$14 + |4x + 10| - 32 = 0$$

and

9.  $s = a + tw$  gives the cost  $s$  of building a table of width  $w$  ft. Find a formula for  $w$  in terms of  $s$ .

- (A)  $w = \frac{s-a}{t}$        (C)  $w = \frac{s}{t} - a$
- (B)  $w = \frac{s}{t} + a$        (D)  $w = \frac{a-s}{t}$

# Bsbcus401b Assessment Answers

**J Spring**



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