

# 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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## **Table of Contents Bsbacus401b Assessment Answers**

1. Understanding the eBook Bsbacus401b Assessment Answers
  - The Rise of Digital Reading Bsbacus401b Assessment Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Bsbacus401b Assessment Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Bsbacus401b Assessment Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Bsbacus401b Assessment Answers
  - Personalized Recommendations
  - Bsbacus401b Assessment Answers User Reviews and Ratings
  - Bsbacus401b Assessment Answers and Bestseller Lists
5. Accessing Bsbacus401b Assessment Answers Free and Paid eBooks
  - Bsbacus401b Assessment Answers Public Domain eBooks
  - Bsbacus401b Assessment Answers eBook Subscription Services
  - Bsbacus401b Assessment Answers Budget-Friendly Options

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  - ePub, PDF, MOBI, and More
  - Bsbcus401b Assessment Answers Compatibility with Devices
  - Bsbcus401b Assessment Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Bsbcus401b Assessment Answers
  - Highlighting and Note-Taking Bsbcus401b Assessment Answers
  - Interactive Elements Bsbcus401b Assessment Answers
8. Staying Engaged with Bsbcus401b Assessment Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Bsbcus401b Assessment Answers
9. Balancing eBooks and Physical Books Bsbcus401b Assessment Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Bsbcus401b Assessment Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Bsbcus401b Assessment Answers
  - Setting Reading Goals Bsbcus401b Assessment Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Bsbcus401b Assessment Answers
  - Fact-Checking eBook Content of Bsbcus401b Assessment Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
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