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| **Multiple Choice** |

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| 1. Change the following improper fraction to a whole or mixed number. Reduce fractional parts to lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 6 1/3 | |  | b. | 6 1/5 | |  | c. | 19/3 | |  | d. | 19/5 |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 2 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.2 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 2. Change the following improper fraction to a whole or mixed number. Reduce fractional parts to lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 8 3/6 | |  | b. | 17/3 | |  | c. | 8 1/2 | |  | d. | 8 1/6 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 2 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.2 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 3. Change the following mixed number to an improper fraction.   |  |  |  | | --- | --- | --- | |  | a. | 43/3 | |  | b. | 42/5 | |  | c. | 48/5 | |  | d. | 43/5 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 2 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.1 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 4. Change the following mixed number to an improper fraction.   |  |  |  | | --- | --- | --- | |  | a. | 41/6 | |  | b. | 41/7 | |  | c. | 43/7 | |  | d. | 11/7 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 2 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.1 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 5. Change the fraction to higher terms, with the denominator shown.   |  |  |  | | --- | --- | --- | |  | a. | 4/7 = 20/42 | |  | b. | 4/7 = 24/42 | |  | c. | 4/7 = 16/42 | |  | d. | 4/7 = 28/42 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 2 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.2 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 6. Change the fraction to higher terms, with the denominator shown.   |  |  |  | | --- | --- | --- | |  | a. | 5/8 = 20/24 | |  | b. | 5/8 = 13/24 | |  | c. | 5/8 = 15/24 | |  | d. | 5/8 = 10/24 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 2 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.2 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 7. Add the following fractions and mixed numbers. Write the answer as a fraction or mixed number in lowest terms.  ​   |  |  |  | | --- | --- | --- | |  | a. | 1 17/120 | |  | b. | 1 17/60 | |  | c. | 137/240 | |  | d. | 97/120 |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 2 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.3 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 8. Add the following fractions and mixed numbers. Write the answer as a fraction or mixed number in lowest terms.  ​   |  |  |  | | --- | --- | --- | |  | a. | 7 13/14 | |  | b. | 6 9/4 | |  | c. | 8 5/6 | |  | d. | 8 1/4 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 2 | | *DIFFICULTY:* | Moderate | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.3 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 9. Add the following fractions and mixed numbers. Write the answer as a fraction or mixed number in lowest terms.  ​   |  |  |  | | --- | --- | --- | |  | a. | 11 197/360 | |  | b. | 10 557/360 | |  | c. | 10 197/360 | |  | d. | 4155/360 |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 2 | | *DIFFICULTY:* | Moderate | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.3 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 10. Subtract the following fractions or mixed numbers. Write the answer as a fraction or mixed number in lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 9/15 | |  | b. | 1 1/6 | |  | c. | 19/30 | |  | d. | 6/10 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.4 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 11. Subtract the following fractions or mixed numbers. Write the answer as a fraction or mixed number in lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 1 17/42 | |  | b. | 9/42 | |  | c. | 1/13 | |  | d. | 11/42 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.4 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 12. Subtract the following fractions or mixed numbers. Write the answer as a fraction or mixed number in lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 2 23/42 | |  | b. | 1 23/42 | |  | c. | 3 5/6 | |  | d. | 2 13/21 |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.4 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 13. Subtract the following fractions or mixed numbers. Write the answer as a fraction or mixed number in lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 3 27/80 | |  | b. | 1 43/80 | |  | c. | 1 37/80 | |  | d. | 2 37/80 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.4 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 14. Subtract the following fractions or mixed numbers. Write the answers as a fraction or mixed number in lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 1 25/36 | |  | b. | 2 25/36 | |  | c. | 2 11/36 | |  | d. | 4 19/36 |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.4 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 15. Subtract the following fractions or mixed numbers. Write the answers as a fraction or mixed number in lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 1 7/12 | |  | b. | 5/12 | |  | c. | 2/3 | |  | d. | 7/12 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.4 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 16. A farmer planted 3 2/3 acres of oats, 5 3/4 acres of wheat, and 2 5/6 acres of barley. Compute the total number of acres planted.   |  |  |  | | --- | --- | --- | |  | a. | 10 3/4 acres | |  | b. | 13 acres | |  | c. | 12 1/4 acres | |  | d. | 9 5/12 acres |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.3 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 17. A rancher planned to fence 6 1/2 acres of land to grow some experimental grasses. After he had finished fencing 4 3/4 acres of the land, it started snowing. How many acres of the land remained to be fenced?   |  |  |  | | --- | --- | --- | |  | a. | 1 2/3 acres | |  | b. | 11 1/4 acres | |  | c. | 1 1/2 acres | |  | d. | 1 3/4 acres |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.4 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 18. Mr. Steev planned to fence 7 1/2 acres of land to grow a new variety of wheat. After he had finished fencing 3 3/4 acres of the land, it started raining. How many acres of the land remained to be fenced?   |  |  |  | | --- | --- | --- | |  | a. | 11 1/4 acres | |  | b. | 3 3/4 acres | |  | c. | 3 2/3 acres | |  | d. | 4 3/4 acres |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.4 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 19. Last week, an organic produce farm delivered 11 3/8 pounds of green leaf lettuce, 13 7/16 pounds of romaine lettuce, and 9 5/6 pounds of red leaf lettuce. What was the total weight of the lettuce delivered?   |  |  |  | | --- | --- | --- | |  | a. | 24 13/16 pounds | |  | b. | 34 31/48 pounds | |  | c. | 34 5/8 pounds | |  | d. | 24 15/16 pounds |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.3 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 20. A husband and wife work at the same company, and decide to walk to work. He leaves home at 7:30 am, and arrives in 12 1/3 minutes. She leaves at 7:45 am, and arrives in 10 3/5 minutes. Compute how much longer it takes him to walk to work than it takes her.   |  |  |  | | --- | --- | --- | |  | a. | 1 11/15 minutes | |  | b. | 15 minutes | |  | c. | 13 4/15 minutes | |  | d. | 1 13/15 minutes |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.4 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 21. A merchant bought 15 2/5 pounds of apples and pears to sell at a fruit stand. 8 3/4 pounds were apples. Calculate the number of pounds of pears.   |  |  |  | | --- | --- | --- | |  | a. | 24 3/20 pounds | |  | b. | 6 7/20 pounds | |  | c. | 6 13/20 pounds | |  | d. | 7 13/20 pounds |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.4 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 22. A cyclist rode her bicycle 10 1/2 miles on Monday, 12 7/8 miles on Tuesday, and 11 4/5 miles on Wednesday. Compute the total distance for the three days.   |  |  |  | | --- | --- | --- | |  | a. | 34 7/40 miles | |  | b. | 35 9/40 miles | |  | c. | 35 7/40 miles | |  | d. | 24 7/40 miles |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.3 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 23. A hiking club planned to hike to a waterfall which was 8 3/10 miles away. When the hikers stopped for a rest, they had walked 5 1/2 miles. How far were they from the waterfall?   |  |  |  | | --- | --- | --- | |  | a. | 2 4/5 miles | |  | b. | 13 4/5 miles | |  | c. | 2 1/5 miles | |  | d. | 3 4/5 miles |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.4 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 24. An electrician bought a 100-foot roll of 12-gauge copper wire, and used 32 7/12 feet for one job and 26 3/4 feet for a second job. How many feet of wire remained on the roll?   |  |  |  | | --- | --- | --- | |  | a. | 67 5/12 feet | |  | b. | 40 7/12 feet | |  | c. | 42 2/3 feet | |  | d. | 40 2/3 feet |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.4 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 25. A hobbyist makes jewelry for friends and relatives. Last week the hobbyist used 3/4 ounce of gold and 2 1/6 ounces of silver. Compute the number of ounces that she used during last week.   |  |  |  | | --- | --- | --- | |  | a. | 2 5/6 ounces | |  | b. | 1 5/12 ounces | |  | c. | 2 11/12 ounces | |  | d. | 37/12 ounces |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.3 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 26. A craftsperson makes jewelry to sell at art fairs. For Christmas fairs, the craftsperson bought 5 7/10 ounces of gold, 4 4/5 ounces of silver, and 7 5/6 ounces of turquoise. What was the total weight that she purchased?   |  |  |  | | --- | --- | --- | |  | a. | 16 29/30 ounces | |  | b. | 18 1/3 ounces | |  | c. | 18 1/30 ounces | |  | d. | 10 1/2 ounces |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.3 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 27. Two chefs agree to provide 3 1/2 gallons of soup for a benefit luncheon. One chef will bring 1 7/8 gallons. Compute how much the other chef must bring.   |  |  |  | | --- | --- | --- | |  | a. | 1 5/8 gallons | |  | b. | 5 3/8 gallons | |  | c. | 1 3/8 gallons | |  | d. | 2 5/8 gallons |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.4 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 28. Three workers cleaned 5 1/2 acres of land. One worker cleaned 2 1/3 acres and a second cleaned another 1 3/4 acres. How many acres did the third worker clean?   |  |  |  | | --- | --- | --- | |  | a. | 1 5/12 acres | |  | b. | 2 1/12 acres | |  | c. | 1 7/12 acres | |  | d. | 2 5/12 acres |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.4 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 29. A landscape contractor assigned two employees to plant several hundred shrubs. After a week, one employee had planted 1/3 of the shrubs, and the second employee had planted 2/5 of the shrubs. What fraction of the shrubs remained to be planted?   |  |  |  | | --- | --- | --- | |  | a. | 1/5 of the shrubs remain | |  | b. | 1/3 of the shrubs remain | |  | c. | 1/4 of the shrubs remain | |  | d. | 4/15 of the shrubs remain |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.4 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 30. A small package of veal weighs 5 3/8 ounces. A similar package of pork weighs 4 3/5 ounces. What is the difference in the weight of the two packages?   |  |  |  | | --- | --- | --- | |  | a. | 1 1/8 ounce | |  | b. | 1 1/40 ounce | |  | c. | 31/40 ounce | |  | d. | 9 39/40 ounce |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.4 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 31. A small candy company specializes in handmade chocolates. In one hour, one employee made 7 1/3 pounds of chocolates, another employee made 8 4/5 pounds, and a third employee made 7 1/4 pounds. Compute the total number of pounds the three employees made together.   |  |  |  | | --- | --- | --- | |  | a. | 22 23/60 pounds | |  | b. | 14 7/12 pounds | |  | c. | 23 23/60 pounds | |  | d. | 24 33/60 pounds |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.3 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 32. A jeweler used 2/3 ounce of gold for earrings and 1 3/4 for a bracelet. Compute the total number of ounces of gold that she used.   |  |  |  | | --- | --- | --- | |  | a. | 1 11/12 ounces | |  | b. | 2 5/12 ounces | |  | c. | 1 1/12 ounces | |  | d. | 2 7/12 ounces |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.3 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 33. A woodcutter estimated that his small pickup truck could hold 2/3 cord of firewood. In reality, his truck carries 5/9 cord. Calculate the difference between his estimate and the actual load.   |  |  |  | | --- | --- | --- | |  | a. | 1 2/9 cord | |  | b. | 4/27 cord | |  | c. | 11/18 cord | |  | d. | 1/9 cord |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.4 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 34. Multiply the following fraction. Reduce the product to lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 3/5 | |  | b. | 7/20 | |  | c. | 12/20 | |  | d. | 7/9 |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.5 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 35. Multiply the following fraction. Reduce the product to lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 40/180 | |  | b. | 1/2 | |  | c. | 1/4 | |  | d. | 5/12 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.5 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 36. Multiply the following fraction. Reduce the product to lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 1/4 | |  | b. | 5/24 | |  | c. | 1/3 | |  | d. | 5/16 |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.5 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 37. Multiply the following fractions and whole numbers. Reduce the product to lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 4 1/4 | |  | b. | 4 | |  | c. | 1 4/27 | |  | d. | 4 1/3 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.5 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 38. Multiply the following fractions and whole numbers. Reduce the product to lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 1 1/4 | |  | b. | 1 139/143 | |  | c. | 1 3/4 | |  | d. | 1 11/13 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.5 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 39. Multiply the following fractions and whole numbers. Reduce the product to lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 3 7/72 | |  | b. | 2 16/17 | |  | c. | 4 1/72 | |  | d. | 3 1/8 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.5 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 40. Change the mixed numbers to improper fractions and multiply. Write the answer as a mixed number in lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 2 4/5 | |  | b. | 2 1/15 | |  | c. | 2 27/30 | |  | d. | 3 1/30 |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Moderate | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.5 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 41. Change the mixed numbers to improper fractions and multiply. Write the answer as a mixed number in lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 8 3/4 | |  | b. | 6 1/4 | |  | c. | 6 1/12 | |  | d. | 8 7/12 |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Moderate | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.5 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 42. Change the mixed numbers to improper fractions and multiply. Write the answer as a mixed number in lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 36 1/10 | |  | b. | 60 1/60 | |  | c. | 60 | |  | d. | 59 59/60 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Moderate | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.5 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 43. Change the mixed numbers to improper fractions and multiply. Write the answer as a mixed number in lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 3 1/2 | |  | b. | 6 | |  | c. | 6 1/420 | |  | d. | 6 1/210 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Moderate | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.5 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 44. Divide the following fractions. Write the answer as a fraction or mixed number in lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 8/15 | |  | b. | 5/6 | |  | c. | 2/7 | |  | d. | 10/12 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.6 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 45. Divide the following fractions. Write the answer as a fraction or mixed number in lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 15/24 | |  | b. | 1 1/5 | |  | c. | 23/24 | |  | d. | 5/6 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.6 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 46. Divide the following fractions. Write the answer as a fraction or mixed number in lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 1 1/3 | |  | b. | 37/48 | |  | c. | 3/4 | |  | d. | 3/5 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.6 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 47. Divide the following fractions. Write the answer as a fraction or mixed number in lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 2 1/4 | |  | b. | 4/9 | |  | c. | 9/4 | |  | d. | 17/18 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.6 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 48. Change the mixed numbers to improper fractions and divide. Write the answer as a fraction or mixed number in lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 1 1/2 | |  | b. | 1 2/3 | |  | c. | 2/3 | |  | d. | 1 3/5 |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.6 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 49. Change the mixed numbers to improper fractions and divide. Write the answers as a fraction or mixed number in lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 3/5 | |  | b. | 1 2/3 | |  | c. | 1 1/9 | |  | d. | 23/30 |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.6 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 50. Change the mixed numbers to improper fractions and divide. Write the answer as a fraction or mixed number in lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 5/14 | |  | b. | 7/10 | |  | c. | 1 3/7 | |  | d. | 9/10 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.6 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 51. Change the mixed numbers to improper fractions and divide. Write the answer as a fraction or mixed number in lowest terms.   |  |  |  | | --- | --- | --- | |  | a. | 2 1/4 | |  | b. | 1 1/30 | |  | c. | 2 1/3 | |  | d. | 25/64 |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.6 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 52. A small herb garden is 5 1/4 feet by 5 1/3 feet. If there are 9 square feet in 1 square yard, compute the number of square yards that are in the herb garden.   |  |  |  | | --- | --- | --- | |  | a. | 252 square yards | |  | b. | 3 2/9 square yards | |  | c. | 2 19/54 square yards | |  | d. | 3 1/9 square yards |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Moderate | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.6 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 53. A small vegetable garden is 7 1/2 feet by 7 1/5 feet. If there are 8 square feet in 1 square yard, compute the number of square yards that are in the vegetable garden.   |  |  |  | | --- | --- | --- | |  | a. | 6 1/4 square yards | |  | b. | 3 4/15 square yards | |  | c. | 54 square yards | |  | d. | 6 3/4 square yards |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Moderate | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.6 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 54. A cook has a recipe for a pasta sauce that calls for 3/4 cup of chopped onions. One recipe makes enough for six servings. Compute the volume of chopped onions that would be required for fifteen servings. (Hint: That means the cook must prepare 15/6 = 2 1/2 recipes.)   |  |  |  | | --- | --- | --- | |  | a. | 1 1/2 cups | |  | b. | 3 1/4 cups | |  | c. | 1 7/8 cups | |  | d. | 2 cups |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Moderate | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.5 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 55. An amateur cook entered a "chili cook-off." Among other spices the cook included 1 2/3 teaspoons of cayenne pepper. The cook decided the chili was too hot, and wanted to use only 3/4 as much cayenne as had been used. Compute the new amount of cayenne that would be used.   |  |  |  | | --- | --- | --- | |  | a. | 1 1/4 teaspoons | |  | b. | 1 teaspoon | |  | c. | 1 1/12 teaspoon | |  | d. | 3/4 teaspoon |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Moderate | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.5 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 56. A painter mixing paint for a client starts with 6 1/2 quarts of white base paint. To each quart, the painter must add 2 2/3 ounces of tint. How many ounces of tint are required for this project?   |  |  |  | | --- | --- | --- | |  | a. | 9 1/6 ounces | |  | b. | 17 2/3 ounces | |  | c. | 12 1/3 ounces | |  | d. | 17 1/3 ounces |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Moderate | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.5 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 57. A person prepares a rusty metal fence for painting, completing 4 1/2 feet of fence per hour. When there are 2 hours and 20 minutes left to work in the day, how many feet can be prepared during the remainder of the day? (Hint: 20 minutes is 1/3 hour.)   |  |  |  | | --- | --- | --- | |  | a. | 10 feet | |  | b. | 10 1/2 feet | |  | c. | 8 1/3 feet | |  | d. | 11 1/3 feet |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Moderate | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.5 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 58. For her semester project, an art student was required to complete an oil painting that was at least 5 square feet in area. If the student wanted to make a painting that was 3 3/4 feet wide, what is the minimum height that it could be?   |  |  |  | | --- | --- | --- | |  | a. | 1 1/4 feet | |  | b. | 1 1/2 feet | |  | c. | 2 feet | |  | d. | 1 1/3 feet |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Moderate | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.6 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 59. A homeowner contracts with a landscaper to resold the front lawn which is 10 1/2 yards long by 6 2/3 yards wide. Compute the cost if the landscaper charges $8.00 per square yard for labor and materials.   |  |  |  | | --- | --- | --- | |  | a. | $482. 67 | |  | b. | $543 | |  | c. | $560 | |  | d. | $134 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Moderate | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.5 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 60. A car manufacturer claims that one of its new models will travel 32 miles on one gallon of gasoline. If the claim is true, how far should it travel on 3 3/4 gallons of gasoline?   |  |  |  | | --- | --- | --- | |  | a. | 99 miles | |  | b. | 106 miles | |  | c. | 120 miles | |  | d. | 160 miles |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Moderate | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.5 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 61. A house painter uses about 2 1/2 quarts of paint per hour on a specific type of wooden exterior trim. For an 8-hour day, the painter's preparation work is 3/4 of an hour, with 1/2 hour for cleanup. If the person paints the remainder of the 8 hours, compute the number of quarts of paint that will be used.   |  |  |  | | --- | --- | --- | |  | a. | 20 quarts | |  | b. | 16 5/8 quarts | |  | c. | 16 7/8 quarts | |  | d. | 17 quarts |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Moderate | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.5 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 62. A school cafeteria prepares soup in five-gallon stock pots. Because of waste, the cooks only get 3 3/4 gallons of soups from one pot. If one large serving measures about 1 1/3 cups, how many large servings can they get out of one pot? (One gallon = 4 quarts = 16 cups.)   |  |  |  | | --- | --- | --- | |  | a. | 180 servings | |  | b. | 90 servings | |  | c. | 20 servings | |  | d. | 45 servings |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Moderate | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.6 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 63. In the bedroom of a house, there were 1 5/16 inches of space underneath the door before a carpet and pad were installed. After the installation, the space was only 1/7 of the previous space. Find the space under the door after the installation.   |  |  |  | | --- | --- | --- | |  | a. | 2/7 inch | |  | b. | 5/16 inch | |  | c. | 1/2 inch | |  | d. | 3/16 inch |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.5 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 64. A lawn mower manufacturer claims that one of its new gas-powered lawn mowers will run for 2 hours and 40 minutes on 1 quart of gasoline. If the claim is true, how long should this lawn mower run on 3 1/2 quarts of gasoline? [40 minutes is 2/3 of an hour.]   |  |  |  | | --- | --- | --- | |  | a. | 8 1/2 hours [or 8 hours and 30 minutes] | |  | b. | 9 1/3 hours [or 9 hours and 20 minutes] | |  | c. | 8 1/3 hours [or 8 hours and 20 minutes] | |  | d. | 12 2/3 hours [or 12 hours and 40 minutes] |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.5 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 65. A renter wanted to paint a small wall in her apartment. She bought a can paint that was supposed to cover 110 square feet. The height of the wall was 8 1/3 feet high. What length of wall could she paint with this one can of paint?   |  |  |  | | --- | --- | --- | |  | a. | 13 1/5 feet | |  | b. | 10 1/3 feet | |  | c. | 101 2/3 feet | |  | d. | 11 2/3 feet |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.6 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 66. Linda wanted to paint a small wall in her apartment. She bought a can paint that was supposed to cover 120 square feet. The height of the wall was 9 1/3 feet high. What length of wall could she paint with this one can of paint?   |  |  |  | | --- | --- | --- | |  | a. | 13 1/3 feet | |  | b. | 110 2/3 feet | |  | c. | 12 7/8 feet | |  | d. | 12 6/7 feet |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.6 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 67. A concrete walkway will be 18 feet long, 3 2/3 feet wide and 1/3 foot thick. Compute the number of cubic feet of concrete used to make the patio.   |  |  |  | | --- | --- | --- | |  | a. | 22 cubic feet | |  | b. | 18 cubic feet | |  | c. | 24 1/3 cubic feet | |  | d. | 54 2/9 cubic feet |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.5 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 68. An accountant often eats lunch at a restaurant that is 3/8 mile from her office. She makes the walk in 7 1/2 minutes. At the same rate, how long will it take her to walk the two miles from her home to her office?   |  |  |  | | --- | --- | --- | |  | a. | 36 minutes | |  | b. | 42 minutes 30 seconds | |  | c. | 40 minutes | |  | d. | 1 hour and 2 minutes |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Moderate | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.6 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 69. A homeowner is planning to build a concrete sidewalk that will require 1 3/4 cubic yards of concrete. She also will build a small patio requiring 2 1/3 cubic yards of concrete. The two projects are in the backyard, so the concrete will be carried in a wheelbarrow. The wheelbarrow will comfortably hold 1/6 of cubic yard of concrete. How many wheelbarrow loads will be required for the entire job?   |  |  |  | | --- | --- | --- | |  | a. | 24 1/2 | |  | b. | 23 1/3 | |  | c. | 42 | |  | d. | 18 1/2 |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Moderate | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.6 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |

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| 70. The employee who applies the finishing touches and final adjustments to bicycles takes about 1 1/3 hours per bicycle. Calculate the total number of bicycles that he can completely finish in an 8-hour day.   |  |  |  | | --- | --- | --- | |  | a. | 9 bicycles | |  | b. | 6 bicycles | |  | c. | 8 bicycles | |  | d. | 5 bicycles |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *LEARNING OBJECTIVES:* | CBMC.DEIT.1.6 | | *NATIONAL STANDARDS:* | United States - BUSPROG - Analytic | | *KEYWORDS:* | Bloom's: Application | |