

**Number Operations****Unit Test: D**

- A rug is 12 feet wide and  $15\frac{1}{2}$  feet long.  
What is the area of the rug?  
A  $37\frac{1}{2}$  ft<sup>2</sup>  
B 180 ft<sup>2</sup>  
C 186 ft<sup>2</sup>
- Bruce bought  $4\frac{3}{4}$  of ground turkey to make turkey burgers to grill at a barbecue. How many  $\frac{1}{4}$ -pound burgers can he make?  
A 19  
B 20  
C 21
- Do you use the greatest common factor or the least common multiple to add two fractions? In this example, what is it?  
 $\frac{4}{15} + \frac{5}{6}$   
A greatest common factor, 3  
B greatest common factor, 30  
C least common multiple, 30
- A bottle holds 8.2 ounces of liquid soap. Jesse used 0.2 of the soap in the bottle to clean the kitchen floor. How many ounces of soap did she use?  
A 1.64 oz  
B 8.0 oz  
C 41 oz
- What is the reciprocal of  $\frac{1}{3}$ ?  
A  $\frac{3}{1}$   
B  $-\frac{1}{3}$   
C -3
- Cooper deposited \$63 into his checking account. He then wrote two checks, one for \$20 and one for \$35. How much of his original deposit does Cooper have left in his checking account?  
A \$8  
B \$12  
C \$15
- In Mrs. Wallace's science class,  $\frac{1}{2}$  of the students are boys. Of the boys,  $\frac{1}{8}$  are left-handed. What fraction of the students in Mrs. Wallace's science class are left-handed boys?  
A  $\frac{1}{16}$   
B  $\frac{1}{10}$   
C  $\frac{1}{6}$
- In 7 hours, the temperature on the slopes of a mountain ski resort fell from 9°F to 2°F. What was the average change per hour?  
A dropped 7°F  
B dropped 1°F  
C dropped 9°F
- Which expression has a negative answer?  
A  $-4 - (-7)$   
B  $-5 - (-2)$   
C  $-1 - (-8)$

**UNIT**  
**2****Number Operations**

10. Trevor filled his car's gas tank with 17 gallons of gas. He paid \$68.51. What was the price of 1 gallon of gas?
- \_\_\_\_\_
11. What is the reciprocal of  $3\frac{1}{8}$ ?
- \_\_\_\_\_
12. Jamal used his savings to buy 15 pounds of flour at \$0.42 per pound, 8 pounds of butter at \$3.99 per pound, 1 pound of salt at \$0.67 per pound, and 30 pounds of apples at \$1.49 per pound. What was the change in the amount of money in his savings?
- \_\_\_\_\_
13. Jamal plans to bake cherry pies and sell them for \$9.50 each. How many pies does he have to sell to make back his investment and make \$100 profit?
- \_\_\_\_\_
14. A container that weighs  $23\frac{2}{5}$  pounds holds sports equipment. Of the equipment in the container,  $\frac{1}{3}$  of the weight is baseball equipment. What is the weight of the baseball equipment?
- \_\_\_\_\_
15. Explain how to divide by a fraction.
- \_\_\_\_\_
- \_\_\_\_\_
16. Gabby earns \$12.65 per hour. She worked 30.8 hours. What was her pay?
- \_\_\_\_\_
17. Four runners formed a relay team at Jan's high school. The team completed the relay in 3.86 minutes. Each runner ran exactly the same time. What was each runner's time?
- \_\_\_\_\_
18. Granola costs \$2.79 for 16.4 ounces. At this rate how much does 25 ounces of granola cost?
- \_\_\_\_\_
19. Two friends ordered a restaurant special in which they each received a meal and then shared a dessert. The final bill with tax and tip was \$21.86. How much should each friend pay?
- \_\_\_\_\_
20. a. A U.S. dime has a thickness of  $1\frac{7}{20}$  millimeters. Gary has a stack of dimes  $78\frac{3}{10}$  millimeters tall. How many dimes does he have?
- \_\_\_\_\_
- b. What is the value of the dimes?
- \_\_\_\_\_
- c. Each dime weighs 2.268 grams. What is the mass of the entire stack of dimes?
- \_\_\_\_\_