

## Chapters 1–6 Midterm Mastery Test

**Directions** Circle the letter of the best answer.

- What is 402,388 rounded to the nearest thousand?  
**A** 400,000  
**B** 402,000  
**C** 402,400  
**D** 403,000
- The greatest common factor of 36 and 60 is  
**A** 6  
**B** 9  
**C** 12  
**D** 15
- $\frac{2}{5} \div \frac{5}{8} = \underline{\hspace{2cm}}$   
**A**  $\frac{1}{4}$   
**B**  $\frac{4}{1}$   
**C**  $\frac{25}{16}$   
**D**  $\frac{16}{25}$
- $$\begin{array}{r} 3\frac{1}{8} \\ -1\frac{3}{4} \\ \hline \end{array}$$
  
**A**  $1\frac{3}{8}$   
**B**  $1\frac{1}{2}$   
**C**  $2\frac{3}{8}$   
**D**  $2\frac{1}{2}$
- How is 515,000,000 written in scientific notation?  
**A**  $515 \times 10^6$   
**B**  $5.15 \times 10^6$   
**C**  $5.15 \times 10^8$   
**D**  $5.15 \times 10^9$
- Solve for  $n$ :  $\frac{8}{15} = \frac{24}{n}$   
**A**  $n = 45$   
**B**  $n = 31$   
**C**  $n = 12.8$   
**D**  $n = 5$
- Leila can ride her bicycle 8 miles in 1 hour. At this rate, how long will it take Leslie to ride 20 miles?  
**A** 12 hours  
**B** 2.5 hours  
**C** 2 hours  
**D** 1.5 hours
- Alia took a group to dinner for her mother's 75th birthday. The bill before tip was \$180.00. Alia wants to leave a 15% tip for the waiter. Which of the following is closest to the total amount Alia will pay?  
**A** \$190.00  
**B** \$195.00  
**C** \$200.00  
**D** \$205.00

## Chapters 1–6 Midterm Mastery Test, continued

9. Write the name of the place of the underlined digit.

416 \_\_\_\_\_

10. Write this numeral in words:

601,012 \_\_\_\_\_

**Directions** Round these numbers to the nearest:

11. tens

452

\_\_\_\_\_

12. hundreds

1,684

\_\_\_\_\_

13. thousands

24,995

\_\_\_\_\_

**Directions** Solve these problems.

14. To 13 add 210 and 3,567.

\_\_\_\_\_

15. Mia has 1,756 rocks in her collection. She gives away 588 to her cousin. How many rocks does she have left?

\_\_\_\_\_

16. 433 times 306.

\_\_\_\_\_

17. Divide 53 into 21,730.

\_\_\_\_\_

18. Circle the prime numbers.

2    3    6    27    57    53    117    45

19. Circle the composite numbers.

4    27    57    101    49    31    59    9

20. List the set of all factors of  $F_{12}$ .

\_\_\_\_\_

21. What is the LCM of (6, 8)?

\_\_\_\_\_

22. Find the GCF of the pair of numbers (27, 36).

\_\_\_\_\_

23. Tell if the first fraction is less than or greater than the second fraction. Use  $<$  or  $>$ .

$\frac{7}{16}$        $\frac{3}{7}$

**Chapters 1–6 Midterm Mastery Test, continued**

- 24.**
- What is this fraction in simplest form?

$$\frac{75}{156}$$

\_\_\_\_\_

- 25.**
- Rename this mixed number as an improper fraction.

$$5 \frac{13}{29}$$

\_\_\_\_\_

- 26.**
- Rename this improper fraction as a mixed number in simplest form.

$$\frac{192}{54}$$

\_\_\_\_\_

**Directions** Solve the following problems.

**27.**  $6 \frac{1}{8} \times 14 \frac{2}{5}$

\_\_\_\_\_

**28.**  $6 \frac{1}{2} \div \frac{1}{2}$

\_\_\_\_\_

- 29.**
- Jeff has
- $\frac{9}{16}$
- of a pizza. Marta gives him
- $\frac{3}{8}$
- of her pizza.
- 
- How much of a pizza does Jeff have?

\_\_\_\_\_

**30.**  $23 - 14 \frac{2}{7}$

\_\_\_\_\_

- 31.**
- Write this number in words.

103.604 \_\_\_\_\_

- 32.**
- Write whether the first decimal is greater than or less than the second. Use
- $<$
- or
- $>$
- .

6.39

6.391

\_\_\_\_\_

**Directions** Solve these problems.

**33.**  $16 + 42.009 - 5.7 + 0.94$

\_\_\_\_\_

**34.**  $32.9 \times 0.0303$

\_\_\_\_\_

**35.**  $1,190.845 \div 410$

\_\_\_\_\_

- 36.**
- Write this number in scientific notation.

6,403,228,000 \_\_\_\_\_

**Chapters 1–6 Midterm Mastery Test, continued**

- 37.** Harold checked out 19 books from the library. Magda and Teri checked out 57 books. Write a ratio for the number of books as a fraction in simplest form.

\_\_\_\_\_

- 38.** Write a ratio to compare these amounts.

5 days to 3 weeks

\_\_\_\_\_

- 39.** Tell whether this ratio forms a proportion. Use = or  $\neq$ .

$$\frac{12}{8} \qquad \frac{9}{6}$$

- 40.** The scale of a model is 15 inches to 136 inches. If the real object is 17 inches, how many inches long is the model?

\_\_\_\_\_

- 41.** If one Euro equals 85¢, how many U.S. dollars are in 5,016 Euros?

\_\_\_\_\_

- 42.** One U.S. dollar equals \$1.60 Canadian dollars. How many Canadian dollars are in \$250.00?

\_\_\_\_\_

- 43.** Rename this percent as a decimal.

14%

\_\_\_\_\_

- 44.** Rename this percent as a fraction in simplest form.

26%

\_\_\_\_\_

**Directions** Rename each as a percent.

- 45.** 0.403

\_\_\_\_\_

- 46.**  $16\frac{1}{2}$

\_\_\_\_\_

- 47.**  $\frac{3}{20}$

\_\_\_\_\_

- 48.** Sharon's goal is to walk 80 miles this summer. So far, she has walked 14 miles. What percent of her goal has she walked?

\_\_\_\_\_

- 49.** Jake eats at a restaurant. His salad costs \$3.00, the main course costs \$15.95, his dessert costs \$4.50, and his beverage costs \$1.99. What is Jake's total bill if he adds a 15% tip?

\_\_\_\_\_

- 50.** Maya buys a sofa for \$563.00. She pays \$47.00 down. She will pay the remainder in 12 equal payments. How much will each payment be?

\_\_\_\_\_