

Write the letter for the correct answer in the blank at the right of each question.

1. Write  $-7\frac{5}{11}$  as a decimal.

A.  $-7.2$       B.  $-7.\overline{45}$       C.  $-7.4\overline{5}$       D.  $-7.\overline{2}$       1. \_\_\_\_\_

2. Write  $0.\overline{8}$  as a fraction in simplest form.

F.  $\frac{8}{9}$       G.  $\frac{4}{5}$       H.  $\frac{22}{25}$       J.  $1\frac{1}{8}$       2. \_\_\_\_\_

3. Which of the following is a true statement?

A.  $\frac{7}{9} < \frac{7}{11}$       B.  $1.2 < 1\frac{1}{6}$       C.  $-2\frac{9}{10} > -2.\overline{9}$       D.  $\frac{2}{5} = 0.\overline{4}$       3. \_\_\_\_\_

4. Which number is the greatest?

F.  $2\frac{2}{3}$       G.  $2.67$       H.  $2\frac{3}{5}$       J.  $2.49$       4. \_\_\_\_\_

Multiply or divide. Write in simplest form.

5.  $\frac{7}{12} \cdot \left(-\frac{4}{21}\right)$

A.  $-\frac{2}{9}$       B.  $-3\frac{1}{16}$       C.  $-\frac{1}{3}$       D.  $-\frac{1}{9}$       5. \_\_\_\_\_

6.  $-8\frac{1}{3} \cdot 2\frac{2}{5}$

F.  $-20$       G.  $-16\frac{2}{15}$       H.  $-6\frac{1}{2}$       J.  $3\frac{17}{36}$       6. \_\_\_\_\_

7.  $\frac{5}{9} \div \frac{10}{3}$

A.  $3\frac{8}{9}$       B.  $\frac{1}{6}$       C.  $6$       D.  $1\frac{23}{27}$       7. \_\_\_\_\_

8.  $-3\frac{1}{4} \div 2\frac{1}{6}$

F.  $-1\frac{1}{24}$       G.  $-\frac{2}{3}$       H.  $-7\frac{1}{24}$       J.  $-1\frac{1}{2}$       8. \_\_\_\_\_

Add or subtract. Write in simplest form.

9.  $-4\frac{5}{6} + \left(-1\frac{5}{6}\right)$

A.  $-5\frac{10}{6}$       B.  $-5\frac{5}{6}$       C.  $-6\frac{2}{3}$       D.  $-3\frac{2}{3}$       9. \_\_\_\_\_

10.  $\frac{5}{6} + \frac{1}{8}$

F.  $\frac{3}{7}$       G.  $6\frac{2}{3}$       H.  $\frac{5}{48}$       J.  $\frac{23}{24}$       10. \_\_\_\_\_

**2****Chapter 2 Test, Form 2B** (continued)

11.  $4\frac{1}{3} - 2\frac{1}{2}$

A.  $1\frac{5}{6}$

B.  $2\frac{1}{6}$

C.  $2\frac{5}{6}$

D.  $6\frac{5}{6}$

11. \_\_\_\_\_

12. **CARPENTRY** A carpenter has a  $14\frac{3}{4}$ -inch piece of molding. How much remains after she cuts off a  $5\frac{1}{4}$ -inch piece?

F.  $19\frac{1}{2}$  in.

G. 20 in.

H.  $9\frac{1}{2}$  in.

J. 10 in.

12. \_\_\_\_\_

For Questions 13–15, solve each equation. Check your solution.

13.  $-\frac{1}{10} = k + \frac{3}{5}$

A.  $-\frac{1}{6}$

B.  $-\frac{7}{10}$

C.  $-\frac{1}{2}$

D.  $\frac{1}{2}$

13. \_\_\_\_\_

14.  $-3.6 = 0.9c$

F. -4

G. -2.7

H. -4.5

J. -3.24

14. \_\_\_\_\_

15.  $\frac{m}{1.5} = 1.1$

A. 1.65

B.  $0.7\bar{3}$

C. -0.4

D. 2.6

15. \_\_\_\_\_

16. Evaluate  $5^2 \cdot 3^3$ .

F. 864

G. 225

H. 759,375

J. 675

16. \_\_\_\_\_

17. Evaluate  $5^{-3}$ .

A. -15

B.  $-\frac{1}{15}$

C.  $\frac{1}{125}$

D. -125

17. \_\_\_\_\_

18. **CONSTRUCTION** The Phillip Company is constructing a new building. After 5 days the building is 10 feet tall. In 10 days the building is 20 feet tall. In 15 days the building is 30 feet tall. How tall will the building be in 50 days?

F. 40 feet

G. 75 feet

H. 50 feet

J. 100 feet

18. \_\_\_\_\_

19. Write  $4.297 \times 10^8$  in standard notation.

A. 429,700,000

C. 0.00000004297

B. 42,970,000

D. 0.00000004297

19. \_\_\_\_\_

20. **SCIENCE** The volume of a drop of liquid is 0.00005 liter. Write this number in scientific notation.

F.  $5.0 \times 10^{-4}$

G.  $5.0 \times 10^{-5}$

H.  $5.0 \times 10^4$

J.  $5.0 \times 10^5$

20. \_\_\_\_\_

**Bonus** A ribbon is cut in half, and  $\frac{1}{3}$  is used. Then  $\frac{1}{4}$  of the remaining ribbon is cut off and used. The piece left is 15 inches long. How long was the ribbon originally?

B: \_\_\_\_\_