

5.4**Practice**

For use with pages 237-241

Find the product.

1. $\frac{14}{25} \cdot \left(-\frac{3}{7}\right)$

2. $-\frac{20}{33} \cdot \left(-\frac{3}{11}\right)$

3. $51 \cdot \left(-\frac{5}{6}\right)$

4. $-\frac{7}{22} \cdot (-4)$

5. $2\frac{1}{12} \cdot \left(-10\frac{4}{5}\right)$

6. $-6\frac{3}{16} \cdot 5\frac{3}{7}$

7. $-1\frac{4}{27} \cdot \left(-3\frac{6}{11}\right)$

8. $-5\frac{1}{9} \cdot 2\frac{4}{13}$

Evaluate the expression.

9. $\frac{1}{4} \cdot \frac{8}{9} \cdot \left(-\frac{3}{5}\right)$

10. $\frac{4}{7} \cdot \left(-\frac{1}{8}\right) - \frac{3}{4}$

11. $\frac{7}{10} \cdot \frac{2}{9} + \frac{2}{3}$

Simplify the expression.

12. $\frac{20x}{9} \cdot \frac{36x^4}{5}$

13. $\frac{75x^4}{8} \cdot \frac{14x}{3}$

14. $-\frac{8x}{15} \cdot \left(-\frac{4x}{7}\right)$

15. $-\frac{x^6}{11} \cdot \left(-\frac{5x^8}{3}\right)$

16. $-\frac{13x^2}{10} \cdot \frac{6x^3}{5}$

17. $-\frac{x^6}{12} \cdot \left(-\frac{11x^5}{12}\right)$

18. $\frac{xy}{6} \cdot \frac{2x^3y}{3}$

19. $-\frac{x^2y}{4} \cdot \frac{10y^2}{3}$

5.4

Continued

Practice

For use with pages 237-241

Evaluate the expression when $x = -\frac{2}{3}$, $y = \frac{9}{14}$ and $z = -\frac{23}{42}$.

20. $x \cdot y + z$

21. $y + x \cdot z$

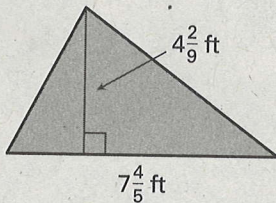
22. $x \cdot y \cdot z$

23. $z - y \cdot x$

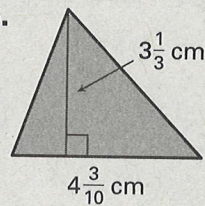
24. A shoreline is eroding at a rate of $2\frac{5}{18}$ feet each year. At this rate, how many feet will the shoreline erode in 8 years?

Find the area of the triangle.

25.



26.



27. In a class election, $\frac{5}{6}$ of the students have already voted. Of those students, $\frac{11}{17}$ have voted for Cindy. There are 102 students in the class. How many students voted for Cindy?

5.5**Practice**

For use with pages 242-246

State the reciprocal of the number.

1. $-\frac{24}{7}$

2. -264

3. 3.45

4. 0.01

Find the quotient.

5. $\frac{7}{20} \div \frac{5}{6}$

6. $-\frac{11}{24} \div \frac{7}{10}$

7. $\frac{8}{33} \div \left(-\frac{8}{9}\right)$

8. $-\frac{7}{5} \div \frac{19}{40}$

9. $8\frac{9}{20} \div 1\frac{7}{40}$

10. $10\frac{9}{14} \div \left(-3\frac{1}{2}\right)$

11. $\frac{16}{25} \div 2$

12. $48 \div \left(-\frac{4}{5}\right)$

13. $12\frac{3}{4} \div \left(-\frac{11}{12}\right)$

14. $5\frac{7}{11} \div 20$

15. $-24\frac{4}{9} \div \frac{8}{15}$

16. $-\frac{10}{33} \div 12$

17. $-\frac{18}{35} \div \left(-2\frac{4}{5}\right)$

18. $30 \div \left(-4\frac{1}{8}\right)$

19. $8\frac{7}{10} \div \frac{33}{50}$

20. $-\frac{15}{26} \div \left(-\frac{5}{14}\right)$

Evaluate the expression when $x = -2\frac{5}{8}$, $y = \frac{3}{10}$, and $z = 6\frac{3}{4}$.

21. $x \div y$

22. $y \div z$

23. $x \div z$

24. $z \div x \cdot y$

5.5

Continued

Practice

For use with pages 242-246

Evaluate the expression.

25. $\frac{4}{9} \div \frac{1}{3} + \frac{7}{10}$

26. $\frac{5}{8} + \frac{5}{12} \div \frac{10}{21}$

27. $-\frac{3}{16} \div \left(\frac{3}{4} + \frac{5}{6}\right)$

28. $\frac{23}{41} \div \frac{25}{82} - \frac{3}{10}$

29. $6\frac{7}{8} \div 1\frac{5}{6} + \frac{11}{20}$

30. $\frac{6}{13} \div \frac{3}{5} \cdot \frac{3}{4}$

31. $-\frac{5}{6} \cdot \left(-\frac{9}{10}\right) \div \frac{17}{20}$

32. $\frac{7}{18} \cdot \left(-\frac{10}{21}\right) \div \frac{11}{9}$

33. $\frac{7}{24} \div \left(\frac{11}{12} - \frac{5}{9}\right)$

34. Evaluate the expression $x^2 \div y$ when $x = -\frac{5}{9}$ and $y = -10$.

35. Evaluate the expression $x^2 \div y^2$ when $x = \frac{7}{12}$ and $y = -\frac{7}{18}$.

36. You have a piece of wood that is $23\frac{3}{8}$ feet long. You need to cut pieces that are $1\frac{3}{8}$ feet long. How many pieces can you cut?