

Skill and Concept Check

- OPEN ENDED** Write a pair of fractions whose product is $\frac{8}{15}$.
- Which One Doesn't Belong?** Identify the expression that does not have the same value as the other three. Explain your reasoning.

$$\frac{1}{5} \text{ of } 25$$

$$25 \times \frac{1}{5}$$

$$5 \div 25$$

$$\frac{1}{5} \cdot \frac{25}{1}$$

- NUMBER SENSE** Is $18 \times \frac{4}{5}$ greater than, less than, or equal to 18? Explain.

GUIDED PRACTICE

Multiply. Write in simplest form.

$$4. \frac{2}{3} \times \frac{1}{3}$$

$$5. \frac{1}{2} \times \frac{2}{5}$$

$$6. -\frac{2}{3} \times \frac{3}{8}$$

$$7. -\frac{1}{6} \times 4$$

$$8. 2\frac{1}{4} \times \frac{2}{3}$$

$$9. 1\frac{5}{6} \times 3\frac{3}{5}$$

- FOOD** An average slice of American cheese is about $\frac{1}{8}$ inch thick. What is the height of a package containing 20 slices?

Practice and Applications

Multiply. Write in simplest form.

$$11. \frac{3}{4} \times \frac{1}{8}$$

$$12. \frac{2}{5} \times \frac{2}{3}$$

$$13. \frac{1}{5} \times \frac{5}{6}$$

$$14. \frac{4}{9} \times \frac{1}{4}$$

$$15. -\frac{2}{3} \times \frac{1}{4}$$

$$16. -\frac{1}{12} \times \frac{3}{5}$$

$$17. \frac{4}{7} \times \frac{7}{8}$$

$$18. \frac{2}{5} \times \frac{15}{16}$$

$$19. \frac{3}{8} \times \frac{10}{27}$$

$$20. \frac{9}{10} \times \frac{5}{6}$$

$$21. -9 \times \left(-\frac{1}{2}\right)$$

$$22. -\frac{4}{5} \times (-6)$$

- ELECTIONS** In an election in which 4,500 votes were cast, one candidate received $\frac{3}{5}$ of the votes. How many votes did the candidate receive?

- PACKAGING** The plastic cases used to store compact disks and DVDs are about $\frac{1}{5}$ -inch thick. A company wants to sell 10 of these cases in plastic wrapping. What is the height of 10 cases?



Multiply. Write in simplest form.

$$25. 4\frac{2}{3} \times \frac{4}{7}$$

$$26. \frac{5}{8} \times 2\frac{1}{2}$$

$$27. 14 \times 1\frac{1}{7}$$

$$28. 3\frac{3}{4} \times 8$$

$$29. -9 \times 4\frac{2}{3}$$

$$30. -4 \times 7\frac{5}{6}$$

$$31. 3\frac{1}{4} \times 2\frac{2}{3}$$

$$32. 5\frac{1}{3} \times 3\frac{3}{4}$$

- TELEVISION** A media research survey showed that one evening, $\frac{2}{3}$ of all U.S. households had their TVs on, and $\frac{3}{8}$ of them were watching a World Series baseball game. What fraction of U.S. households was watching the game?

HOMEWORK HELP

For Exercises	See Examples
11–12	1
21–24, 34	2
13–20, 33	3
25–32, 35–36	4

Extra Practice
See pages 578, 601.