

**LESSON 4-7 Homework and Practice**  
**4-7 Multiplying Fractions and Mixed Numbers**

Multiply. Write each answer in simplest form.

- |  |  |  |
|--|--|--|
| 1. $7 \cdot \frac{1}{3}$<br>_____              | 2. $8 \cdot \frac{3}{5}$<br>_____              | 3. $5 \cdot \frac{3}{4}$<br>_____              |
| $2\frac{1}{3}$                                 | $4\frac{4}{5}$                                 | $3\frac{3}{4}$                                 |
| 4. $\frac{9}{12} \cdot \frac{4}{5}$<br>_____   | 5. $\frac{7}{15} \cdot \frac{3}{7}$<br>_____   | 6. $\frac{8}{9} \cdot \frac{6}{16}$<br>_____   |
| $\frac{3}{5}$                                  | $\frac{1}{5}$                                  | $\frac{1}{3}$                                  |
| 7. $14 \cdot \frac{2}{5}$<br>_____             | 8. $18 \cdot \frac{3}{8}$<br>_____             | 9. $10 \cdot \frac{5}{6}$<br>_____             |
| $5\frac{3}{5}$                                 | $6\frac{3}{4}$                                 | $8\frac{1}{3}$                                 |
| 10. $3\frac{1}{2} \cdot \frac{2}{9}$<br>_____  | 11. $4\frac{2}{3} \cdot \frac{1}{4}$<br>_____  | 12. $3\frac{5}{8} \cdot \frac{2}{3}$<br>_____  |
| $\frac{7}{9}$                                  | $1\frac{1}{6}$                                 | $2\frac{5}{12}$                                |
| 13. $4\frac{1}{5} \cdot \frac{5}{6}$<br>_____  | 14. $5\frac{2}{3} \cdot \frac{3}{4}$<br>_____  | 15. $6\frac{3}{4} \cdot \frac{4}{5}$<br>_____  |
| $3\frac{1}{2}$                                 | $4\frac{1}{4}$                                 | $5\frac{2}{5}$                                 |
| 16. $3\frac{2}{3} \cdot 2\frac{1}{2}$<br>_____ | 17. $1\frac{7}{8} \cdot 5\frac{1}{3}$<br>_____ | 18. $2\frac{3}{5} \cdot 4\frac{1}{6}$<br>_____ |
| $9\frac{1}{6}$                                 | 10   | $10\frac{5}{6}$                                |

19. Of the 42 people who work at Whiteside Industries,  $\frac{5}{6}$  of them work in the manufacturing plant. How many people work in the manufacturing plant?

**35 people**

20. Ethan made  $2\frac{1}{2}$  quarts of soup. He served  $\frac{1}{2}$  of the soup to his family for dinner. How much soup was left over?

**$1\frac{1}{4}$  quarts**

**LESSON 4-8 Homework and Practice**  
**4-8 Dividing Fractions and Mixed Numbers**

Divide. Write each answer in simplest form.

- |   |   |   |
|---|---|---|
| 1. $6 \div \frac{1}{3}$<br>_____              | 2. $\frac{1}{3} \div \frac{1}{2}$<br>_____    | 3. $\frac{1}{6} \div \frac{3}{4}$<br>_____    |
| 18  | $\frac{2}{3}$                                 | $\frac{2}{9}$                                 |
| 4. $\frac{5}{6} \div \frac{3}{4}$<br>_____    | 5. $\frac{2}{3} \div \frac{2}{7}$<br>_____    | 6. $\frac{5}{12} \div \frac{2}{3}$<br>_____   |
| $1\frac{1}{9}$                                | $2\frac{1}{3}$                                | $\frac{5}{8}$                                 |
| 7. $\frac{5}{8} \div \frac{2}{5}$<br>_____    | 8. $\frac{2}{3} \div \frac{1}{4}$<br>_____    | 9. $\frac{11}{12} \div \frac{5}{6}$<br>_____  |
| $1\frac{9}{16}$                               | $2\frac{2}{3}$                                | $1\frac{1}{10}$                               |
| 10. $2\frac{1}{4} \div \frac{1}{3}$<br>_____  | 11. $3\frac{3}{5} \div \frac{3}{4}$<br>_____  | 12. $\frac{8}{9} \div 5\frac{1}{3}$<br>_____  |
| $6\frac{3}{4}$                                | $4\frac{4}{5}$                                | $\frac{1}{6}$                                 |
| 13. $4\frac{1}{2} \div 2\frac{2}{5}$<br>_____ | 14. $5\frac{3}{5} \div 2\frac{1}{3}$<br>_____ | 15. $6\frac{2}{5} \div 5\frac{1}{3}$<br>_____ |
| $1\frac{7}{8}$                                | $2\frac{2}{5}$                                | $1\frac{1}{5}$                                |
| 16. $1\frac{3}{4} \div 4\frac{2}{3}$<br>_____ | 17. $2\frac{1}{7} \div 1\frac{1}{4}$<br>_____ | 18. $6\frac{2}{3} \div 1\frac{3}{7}$<br>_____ |
| $\frac{3}{8}$                                 | $1\frac{5}{7}$                                | $4\frac{2}{3}$                                |

19. Bernie has  $22\frac{3}{4}$  pounds of dog food. If his dog eats  $1\frac{3}{4}$  pounds of dog food each day, how many days will this supply of dog food last?

**13 days**

20. Jody is cutting wood to make picture frames. How many pieces of wood that are  $10\frac{3}{4}$  inches long can she cut from a board that is  $75\frac{1}{4}$  inches long?

**7 pieces**