

Reteaching 6-8 Multiplying Mixed Numbers

Multiply: $2\frac{1}{7} \times 2\frac{2}{5}$

Step 1 Change to improper fractions. $\frac{15}{7} \times \frac{12}{5}$

Step 2 Simplify. $\frac{\overset{3}{\cancel{15}}}{7} \times \frac{12}{\underset{1}{\cancel{5}}}$

Step 3 Multiply. $\frac{36 \leftarrow 3 \times 12}{7 \leftarrow 7 \times 1}$

Step 4 Simplify. $5\frac{1}{7}$

$2\frac{1}{7} \times 2\frac{2}{5} = 5\frac{1}{7}$

Multiply: $\frac{2}{3} \times 5\frac{1}{4}$

$\frac{2}{3} \times \frac{21}{4}$

$\frac{2}{3} \times \frac{\overset{7}{\cancel{21}}}{\underset{2}{\cancel{4}}}$

$\frac{7 \leftarrow 1 \times 7}{2 \leftarrow 1 \times 2}$

$3\frac{1}{2}$

$\frac{2}{3} \times 5\frac{1}{4} = 3\frac{1}{2}$

Find each product.

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| 1. $1\frac{1}{4} \times 2\frac{2}{3}$ _____ | 2. $2\frac{2}{5} \times 4\frac{1}{2}$ _____ | 3. $3\frac{1}{7} \times 2\frac{4}{5}$ _____ |
| 4. $\frac{1}{5} \times 2\frac{7}{9}$ _____ | 5. $12\frac{1}{2} \times 2\frac{2}{5}$ _____ | 6. $2\frac{1}{8} \times 2\frac{2}{3}$ _____ |
| 7. $5\frac{1}{3} \times 1\frac{7}{8}$ _____ | 8. $\frac{1}{2} \times 3\frac{3}{5}$ _____ | 9. $2\frac{1}{7} \times 4\frac{2}{3}$ _____ |
| 10. $1\frac{1}{2} \times 2\frac{6}{7}$ _____ | 11. $1\frac{5}{6} \times 2\frac{1}{4}$ _____ | 12. $5\frac{1}{4} \times 2\frac{2}{7}$ _____ |
| 13. $\frac{1}{4} \times 1\frac{3}{5}$ _____ | 14. $\frac{1}{7} \times 1\frac{3}{4}$ _____ | 15. $\frac{2}{9} \times 2\frac{1}{4}$ _____ |
| 16. $3\frac{1}{3} \times 3\frac{3}{10}$ _____ | 17. $1\frac{2}{3} \times 3\frac{1}{2}$ _____ | 18. $1\frac{2}{5} \times 4\frac{1}{3}$ _____ |
| 19. $\frac{1}{7} \times 1\frac{3}{5}$ _____ | 20. $\frac{3}{5} \times 8\frac{1}{2}$ _____ | 21. $3\frac{2}{5} \times 2\frac{1}{2}$ _____ |

Reteaching 6-9 Dividing Fractions and Mixed Numbers

Divide: $8 \div \frac{4}{5}$

Step 1
Find the **reciprocal** of the divisor by switching the numerator and denominator.

$$\frac{4}{5} \times \frac{5}{4}$$

Step 2
Multiply 8 by the reciprocal.

$$8 \div \frac{4}{5} = 8 \times \frac{5}{4} = \frac{8}{1} \times \frac{5}{4} = \frac{2 \times 5}{1 \times 1} = 10$$

$$8 \div \frac{4}{5} = 10$$

Divide: $5\frac{1}{3} \div 2\frac{2}{5}$

Step 1
Write each mixed number as an improper fraction.

$$5\frac{1}{3} \div 2\frac{2}{5} = \frac{16}{3} \div \frac{12}{5}$$

Step 2
Find the reciprocal of the divisor.

$$\frac{12}{5} \times \frac{5}{12}$$

Step 3
Multiply $\frac{16}{3}$ by the reciprocal.

$$\frac{16}{3} \div \frac{12}{5} = \frac{16}{3} \times \frac{5}{12} = \frac{4 \times 5}{3 \times 3} = \frac{20}{9} = 2\frac{2}{9}$$

$$5\frac{1}{3} \div 2\frac{2}{5} = 2\frac{2}{9}$$

Find each quotient.

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