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Simplifying Proper Fractions (A)

Name: _____ Date: _____

Simplify each fraction to its lowest terms

- | | | | |
|---------------------------------|------------------------|-----------------------|-----------------------|
| 1. $\frac{7}{14} = \frac{1}{2}$ | 10. $\frac{24}{33} =$ | 19. $\frac{9}{27} =$ | 28. $\frac{8}{56} =$ |
| 2. $\frac{4}{20} =$ | 11. $\frac{24}{40} =$ | 20. $\frac{7}{56} =$ | 29. $\frac{27}{99} =$ |
| 3. $\frac{14}{21} =$ | 12. $\frac{40}{110} =$ | 21. $\frac{45}{54} =$ | 30. $\frac{4}{12} =$ |
| 4. $\frac{12}{21} =$ | 13. $\frac{36}{40} =$ | 22. $\frac{30}{55} =$ | 31. $\frac{3}{6} =$ |
| 5. $\frac{12}{18} =$ | 14. $\frac{2}{18} =$ | 23. $\frac{20}{35} =$ | 32. $\frac{9}{54} =$ |
| 6. $\frac{5}{50} =$ | 15. $\frac{10}{120} =$ | 24. $\frac{30}{36} =$ | 33. $\frac{9}{18} =$ |
| 7. $\frac{30}{72} =$ | 16. $\frac{8}{96} =$ | 25. $\frac{10}{24} =$ | 34. $\frac{3}{24} =$ |
| 8. $\frac{4}{40} =$ | 17. $\frac{50}{60} =$ | 26. $\frac{10}{20} =$ | 35. $\frac{6}{16} =$ |
| 9. $\frac{12}{30} =$ | 18. $\frac{10}{45} =$ | 27. $\frac{35}{56} =$ | 36. $\frac{24}{42} =$ |
| 37. $\frac{30}{55} =$ | 46. $\frac{8}{64} =$ | 55. $\frac{4}{8} =$ | 64. $\frac{15}{21} =$ |

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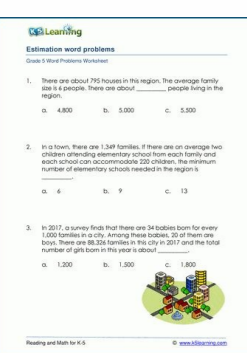
divide fractions

How to divide fractions:

1. Leave the first fraction in the equation alone.
2. Turn the division sign into a multiplication sign.
3. Flip the second fraction over (find its reciprocal).
4. Multiply the two fractions.
5. Finally simplify the fraction.

- | | |
|----------------------------------|----------------------------------|
| $\frac{5}{6} \div \frac{1}{2} =$ | $\frac{4}{4} \div \frac{3}{8} =$ |
| $\frac{5}{5} \div \frac{6}{8} =$ | $\frac{2}{5} \div \frac{1}{2} =$ |
| $\frac{4}{4} \div \frac{1}{2} =$ | $\frac{1}{2} \div \frac{2}{9} =$ |
| $\frac{1}{4} \div \frac{1}{3} =$ | $\frac{2}{3} \div \frac{2}{3} =$ |
| $\frac{2}{3} \div \frac{4}{5} =$ | $\frac{4}{9} \div \frac{1}{8} =$ |
| $\frac{1}{4} \div \frac{2}{7} =$ | $\frac{4}{8} \div \frac{4}{5} =$ |
| $\frac{1}{4} \div \frac{1}{4} =$ | $\frac{1}{3} \div \frac{4}{4} =$ |
| $\frac{5}{7} \div \frac{3}{9} =$ | $\frac{5}{8} \div \frac{3}{9} =$ |
| $\frac{1}{7} \div \frac{5}{7} =$ | $\frac{4}{4} \div \frac{3}{3} =$ |
| $\frac{1}{6} \div \frac{4}{9} =$ | $\frac{2}{2} \div \frac{1}{9} =$ |

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Multiplying and Dividing Mixed Fractions (A)

Find the value of each expression in lowest terms.

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

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Add Mixed Numbers With Like Denominators (A)

- $9\frac{2}{10} + 7\frac{3}{10} = 16\frac{5}{10} = 16\frac{1}{2}$
- | | |
|-----------------------------------|-----------------------------------|
| $9\frac{4}{12} + 7\frac{8}{12} =$ | $3\frac{8}{12} + 3\frac{2}{12} =$ |
| $5\frac{2}{5} + 3\frac{1}{5} =$ | $9\frac{2}{10} + 4\frac{1}{10} =$ |
| $4\frac{2}{9} + 1\frac{1}{9} =$ | $3\frac{2}{9} + 3\frac{1}{9} =$ |
| $2\frac{3}{10} + 5\frac{1}{10} =$ | $9\frac{3}{8} + 2\frac{3}{8} =$ |
| $4\frac{3}{12} + 5\frac{7}{12} =$ | $7\frac{4}{12} + 7\frac{6}{12} =$ |
| $5\frac{1}{4} + 9\frac{3}{4} =$ | $5\frac{3}{12} + 5\frac{6}{12} =$ |
| $8\frac{4}{12} + 1\frac{5}{12} =$ | $9\frac{3}{9} + 8\frac{3}{9} =$ |

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