

Name _____

Divide Mixed Numbers

To divide mixed numbers, first rewrite the mixed numbers as fractions greater than 1. Then multiply the dividend by the reciprocal of the divisor.

Find the quotient of $7\frac{1}{2} \div 2\frac{1}{2}$. Write it in simplest form.

Step 1 Write the mixed numbers as fractions. $7\frac{1}{2} \div 2\frac{1}{2} = \frac{15}{2} \div \frac{5}{2}$

Step 2 Use the reciprocal of the divisor to write a multiplication problem. $= \frac{15}{2} \times \frac{2}{5}$

Step 3 Simplify. Look for common factors in the numerators and denominators and simplify. $= \frac{\overset{3}{\cancel{15}}}{\underset{1}{\cancel{2}}} \times \frac{\underset{2}{\cancel{2}}}{\overset{1}{\cancel{5}}}$

Step 4 Multiply. $= \frac{3}{1} = 3$

So, $7\frac{1}{2} \div 2\frac{1}{2} = 3$.

Find the quotient. Write it in simplest form.

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

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

3. $8 \div 2\frac{3}{4}$

4. $5\frac{5}{8} \div 1\frac{1}{2}$

~~5. $\frac{5}{6} \div \frac{3}{8}$~~

6. $\frac{4}{7} \div 1\frac{2}{3}$

~~7. $\frac{4}{10} \div \frac{4}{5}$~~

8. $4\frac{2}{5} \div \frac{8}{15}$

9. $24 \div 2\frac{2}{3}$

10. $8\frac{3}{4} \div 2\frac{1}{3}$

11. $3\frac{7}{8} \div 4$

12. $2\frac{5}{8} \div 3\frac{1}{2}$

