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## Algebra / Complex fraction without variables: Problem type 1

$$\frac{\frac{5}{16}}{\frac{7}{8}} \quad \text{Divide}$$

$$\frac{5}{16} \div \frac{7}{8}$$

Dividing fractions  
Keep change flip

$$\frac{5}{16} \cdot \frac{8}{7} = \frac{40}{112} = \frac{10}{28} = \frac{5}{14}$$

OR

$$\frac{5}{16} \cdot \frac{8}{7} = \frac{5}{14}$$

can't have a denominator in a numerator or denominator  
so move it

$$\frac{5}{16} \cdot \frac{8}{7} = \frac{5 \cdot 8}{16 \cdot 7} = \frac{40}{112} = \frac{10}{28} = \frac{5}{14}$$

Complex fraction without variables: Problem type 1

Simplify.

$$\frac{\frac{9}{7}}{\frac{6}{5}}$$
$$\frac{9}{7} \div \frac{6}{5}$$

$$\frac{9}{7} \cdot \frac{5}{6} = \frac{45}{42} = \frac{15}{14}$$

Note: The Solve feature is not available to students.

[Explanation](#) [Try Another](#) [Check](#) [Solve](#)

$$\frac{\frac{7}{8}}{\frac{3}{4}} \quad \frac{7}{8} \div \frac{3}{4}$$

Keep change flip

$$\frac{7}{8} \cdot \frac{4}{3} = \frac{28}{24} = \frac{7}{6}$$

OR

$$\frac{7}{8} \cdot \frac{4}{3} = \frac{7}{6}$$

$$\frac{\frac{7}{8}}{\frac{3}{4}} \quad \frac{7}{8} \cdot \frac{4}{3} = \frac{28}{24} = \frac{7}{6}$$

$$\frac{7}{8} \cdot \frac{4}{3} = \frac{7}{6}$$

$$\frac{2}{5} \div \frac{3}{4} = \frac{2 \cdot 4}{5 \cdot 3} = \frac{8}{15}$$

$$\frac{2}{5} \cdot \frac{4}{3} = \frac{8}{15}$$

$$\frac{2}{5} \div \frac{3}{4} = \frac{2}{5} \cdot \frac{4}{3} = \frac{8}{15}$$

$$\frac{2}{5} \cdot \frac{4}{3} = \frac{8}{15}$$

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$$\frac{\frac{3}{5}}{\frac{6}{7}}$$

Dividing Fractions

$\frac{3}{5} \div \frac{6}{7}$

Keep change flip

$$\frac{3}{5} \cdot \frac{7}{6}$$

or

$$\frac{3}{5} \cdot \frac{7}{2} = \frac{7}{10}$$

$$\frac{21 \div 3}{30 \div 3} = \boxed{\frac{7}{10}}$$

OR

$$\frac{\frac{3}{\cancel{5}}}{\frac{6}{\cancel{7}}}$$

$$\frac{21}{30} = \frac{7}{10}$$

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$$\frac{\frac{3}{\cancel{5}}}{2} = \frac{3}{10}$$

OR

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

$$\frac{3}{5} \cdot \frac{1}{2} = \frac{3}{10}$$

#RationalExpressions

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