

# Complex Fractions

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- Fractions where the numerator, denominator or both are also fractions (Fraction within a fraction.)

ex)  $\frac{\frac{1}{2}}{2}$ ,  $\frac{2}{\frac{1}{2}}$ ,  $\frac{\frac{1}{2}}{\frac{1}{2}}$

Just divide!

$\frac{1}{2} \div 2$   
 $\frac{1}{2} \cdot \frac{1}{2}$   
 $\frac{1}{4}$

$2 \div \frac{1}{2}$   
 $2 \cdot 2$   
 $4$

$\frac{1}{2} \div \frac{1}{2}$   
 $\frac{1}{2} \cdot 2$   
 $1$

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Simplify:

①  $\frac{\frac{3}{4}}{\frac{5}{5}}$

$3 \div \frac{4}{5}$   
 $3 \frac{3}{4}$

$\frac{3 \cdot 5}{1 \cdot 4} = \frac{15}{4}$   
 $3 \frac{3}{4}$

②  $\frac{\frac{2}{3}}{\frac{3}{4}}$

$\frac{2}{3} \div \frac{3}{4}$   
 $\frac{8}{9}$

Jake can read  $6 \frac{1}{2}$  pages in 10 minutes. What is his pace in

pages per minute? Write a complex fraction and simplify.

$\frac{6 \frac{1}{2} \text{ pages}}{10 \text{ minutes}}$

Rate

$6 \frac{1}{2} \div 10 =$

$\frac{13}{20} \text{ pages per minute}$

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