

## Unit Rates With Fractions

**\*\*USE the ABC button on your calculator\*\***

Example:

Paige mows  $\frac{1}{6}$  acres in  $\frac{1}{4}$  hour. How many acres does she mow per hour?

$$\frac{1}{6} \div \frac{1}{4} = \frac{2}{3} \text{ acres per hour}$$

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Complex fraction - A fraction within a fraction

ex)  $\frac{\frac{1}{6}}{\frac{1}{4}} \rightarrow \frac{1}{6} \div \frac{1}{4}$

Simplify:  $\frac{\frac{2}{3}}{3} = \frac{2}{3} \div 3 = \frac{2}{9}$

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Two pools are leaking. After 15 minutes, pool A has leaked  $\frac{2}{3}$  gallon. After 20 minutes, pool B has leaked  $\frac{3}{4}$  gallon. Which pool is leaking faster?

Gallons per minute

$$\text{Pool A} \\ \frac{2}{3} \div 15 = \frac{2}{45} = 0.044$$

Pool A

$$\text{Pool B} \\ \frac{3}{4} \div 20 = \frac{3}{80} = 0.0375$$

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