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Do the Ratios Form a Proportion?
When two ratios are equivalent, they can form a proportion. To determine if two ratios are equivalent, write them as fractions with a common denominator.

| Let's look at some examples! Determine if each pair of ratios forms a proportion. |  |
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| 1:2 and 2:4 |  |
| $\frac{1 \times 2}{2 \times 2}=\frac{2}{4}$ | $\frac{4 \div 2}{6 \div 2}=\frac{2}{3} \quad \frac{5 \div 5}{15 \div 5}=\frac{1}{3}$ |
| The ratios 1:2 and 2:4 are equivalent, so | $\frac{2}{3} \neq \frac{1}{3}$ |
| the ratios form a proportion. | The ratios 4:6 and 5:15 are not equivalent, so the ratios do not form a proportion. |

Try it! Determine if each pair of ratios forms a proportion. In the box beneath each pair of ratios, place a $\boldsymbol{\checkmark}$ if the ratios form a proportion or an $\mathbf{X}$ if they do not.


