Step # 1 First Ratio	Step # 2 Second Ratio	Step # 3- Solve an Equation	Step # 4-Check and Answer
Read the problem carefully! Look for two numbers to compare as the first ratio.	Find a third number that is representing the same kind of idea as one of the numbers in your first ratio. Write a second ratio by placing this number in the same position you wrote it on the first ratio (numerator or denominator). Put a variable on the second ratio in the other position (numerator or	Multiply to get cross products that are equal. Solve the new equation.	Substitute the solution of the equation to check. Make sure both quotients or cross products are equal Answer the question.
You need <u>three</u> parts <u>water</u> for <u>one</u> part <u>orange juice</u> concentrate. If you have <u>12</u> cups of <u>water</u> in a pitcher, how much O.J. concentrate do you need? () parts water, 1 part O.J.	$\frac{\text{water ()}}{\text{O.J. 1}} = \frac{() \text{ water}}{\text{j OJ.}}$	$() \qquad () $	$\frac{3}{1} = \frac{()}{()}$ $3() = 1()^{\circ}$ $\frac{1}{2}$ $3() = 1()^{\circ}$ $\frac{1}{2}$ $3() = 1()^{\circ}$ $\frac{1}{2}$ $\frac{1}$

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Read the problem carefully! Look for two numbers to compare as the first ratio.	 Find a third number that is representing the same kind of idea as one of the numbers in your first ratio. Write a second ratio by placing this number in the same position you wrote it on the first ratio (numerator or denominator). Put a variable on the second ratio in the other position (numerator or denominator). 	Multiply to get cross products that are equal. Solve the equation.	Substitute the solution of the equation to check. Make sure both quotients or cross products are equal. Answer the question.
water for one part orange juice concentrate. If you have <u>12</u> cups of <u>water</u> in a pitcher, how much O.J. concentrate do you need? (<u>3)</u> parts water, <u>1 part O.J.</u>	<u>water (3)</u> = (<u>12) water</u> O.J. 1 j OJ.	$\frac{(3)}{(1)} \cdot \frac{(12)}{(j)}$ 3j = (12) $\frac{3}{3} \cdot j = \frac{(12)}{3}$ j = (4)	$\frac{3}{1} = (\frac{12}{4})$ $3(4) = 1(12)^{\circ}$ $\frac{4}{2} \text{ cups of }$ O.J concentrate are needed.



