

Solving Ratios

Solving Ratios				
Ratios can be used to solve problems. In this unit, you will be given ratios and use them to calculate new quantities.				
Goal Post Method (Multiply & Divide)				
EXAMPLE: For every 2 steps, 3 breaths are taken. How many breaths are taken with 5 steps?				
Write the problem like this: 2 steps : 3 breaths 5 steps : x breaths	REMEMBER: A soccer player is trying to score a goal. To find the value of x , multiply the goal posts and divide by the goalie.			
$x = \frac{5 \times 3}{2} = \frac{15}{2} = 7.5$	For every 5 steps, 7.5 breaths are taken.			

Instructions: Solve the ratios below, simplifying where possible.













Solving Ratios

Solving Ratios			
Ratios can be used to solve problems. In this unit, you will be given ratios and use them to calculate new quantities.			
Goal Post Method (Multiply & Divide)			
EXAMPLE: For every 2 steps, 3 breaths are taken. How many breaths are taken with 5 steps?			
Write the problem like this: 2 steps : 3 breaths 5 steps : x breaths	REMEMBER: A soccer player is trying to score a goal. To find the value of x , multiply the goal posts and divide by the goalie.		
$x = \frac{5 \times 3}{2} = \frac{15}{2} = 7.5$	For every 5 steps, 7.5 breaths are taken.		

Instructions: Solve the ratios below, simplifying where possible.





	15 : 7 24 : <i>x</i>		4 : 7 x : 14
3		4	
	$\begin{array}{cccc} 13 & \vdots & 4 \\ x & \vdots & 6 \end{array}$		$\begin{array}{cccc} 16 & \vdots & 5 \\ 4 & \vdots & x \end{array}$
5		6	
	20 : 7 15 : x		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
7		8	



