Question

A bubble mixture requires 1/4 tablespoon of soap with 1 cup of water. Which equation relates s, the number of tablespoons of soap, with w, the number of cups of water?

Solution

The ratio of the number of tablespoons of soap (s) to the number of cups of water (w) in described mixture:

which is the same as	$\frac{s}{w} = \frac{1/4}{1},$
Hence	$\frac{s}{w} = \frac{1}{4}$
	$s = \frac{1}{4}w$

or

$$w = 4s$$

Last two equations clearly relates **s** and **w**

Answer: $s = \frac{1}{4}w$ or w = 4s