

Correct. Let  $t$  = Julie's time, in minutes, to eat a tableful of pies. Then  $1.5t$  = Shawna's time to eat a tableful. So their rates are  $\frac{1}{t}$  and  $\frac{1}{1.5t}$  tablefuls per minute.

Here is their combined rate:  $\frac{1}{t} + \frac{1}{1.5t} = \frac{1.5}{1.5t} + \frac{1}{1.5t} = \frac{2.5}{1.5t}$

Therefore:  $\left(\frac{2.5}{1.5t}\right) \cdot 30 = 1$  or  $\frac{25 \cdot 30}{15t} = 1$  or  $\frac{50}{t} = 1$

So:  $t = 50$  and  $1.5t = 75$