Solving the equation can take an extra step if the unknown is in the denominator of the equation. Suppose we had set up the equation using the rate $\frac{\text{total oranges}}{\text{ripe oranges}}$ instead.

$$\frac{12}{8} = \frac{24}{x}$$

$$\frac{12}{8} \cdot x = \frac{24}{x} \cdot x$$

$$\frac{12}{8}x = 24$$

$$\frac{8}{12} \cdot \frac{12}{8}x = \frac{8}{12} \cdot 24$$

$$x = 16$$