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  $\frac{total\ oranges}{ripe\ oranges}\ instead.$ 

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

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

$$\frac{12}{8} \operatorname{preview} \text{ from Notesale.co.uk}$$

$$\frac{12}{8} \operatorname{preview} \text{ page 3 of 3}$$

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

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

$$x = 16$$