

$$\frac{x}{4} \cdot \frac{1}{x} = \frac{1}{\frac{1 \times 4x}{2} + \frac{1 \times 2}{4x}}$$

$$= \frac{x}{4} \cdot \frac{1}{x} = \frac{1}{\frac{4x \times 2}{2 \times 4x}}$$

$$= \frac{x}{4} \cdot \frac{1}{x} = \frac{1}{\frac{8x}{8x}}$$