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Proportions

can write a proportion and use multiple strategies to solve.

Proportions - compare equivalent ratios and solve for an unknown value

①

$$\frac{3}{4} = \frac{x}{20}$$

Diagram showing the proportion $\frac{3}{4} = \frac{x}{20}$. An arrow labeled $\times 5$ points from the numerator 3 to the numerator x. Another arrow labeled $\times 5$ points from the denominator 4 to the denominator 20.

$$3 \cdot 5 = 15$$

$$\boxed{x = 15}$$

②

cross multiplication

$$\frac{3}{4} = \frac{x}{20}$$

Diagram showing the proportion $\frac{3}{4} = \frac{x}{20}$ with cross-multiplication. A large 'X' is drawn over the proportion, with lines connecting the top-left number (3) to the bottom-right number (20) and the top-right number (x) to the bottom-left number (4).

$$3 \cdot 20 = 4x$$

$$\frac{60}{4} = \frac{4x}{4}$$

$$\boxed{15 = x}$$