


Proportion - Solving Proportions

- I. To solve for x in the following proportion, we **use cross-products**.

$$\frac{2}{8} = \frac{x}{20}$$

$$\frac{2}{8} \times 20 = 8 \times x$$

- II. Remember that the cross products of a proportion must be equal, so we have 2 times 20 is equal to 8 times x , as shown below.

$$(2)(20) = (8)(x)$$

- III. Simplifying on both sides of the equation, and solving from here, we find that $x = 5$, as shown below.

$$\frac{40}{8} = \frac{8x}{8}$$
$$\boxed{5 = x}$$