

1. A family paid \$29,600 as a down payment for a home. If this represents 20% of the price of the home, find the price of the home.

Step 1 - Restate the problem  
29,600 is 20% of the price of the home

$$29,600 = .20 \cdot x$$

Step 2 - Rewrite in an algebraic expression

Remember key words

"=" means "is"

"." means "of"

"x" means "price of the home"

$$\text{So } 29,600 = .20x$$

$$\frac{29,600}{.20} = x$$

$$x = 148,000$$

Step 3 - Divide by the number in front of the variable "x"

Simplify

The price of the home is \$148,000