

mouse math calculations

$$\textcircled{1} \begin{array}{l} \text{actual} \\ \text{model} \end{array} \frac{2.3 \text{ ft}}{1 \text{ cm}} = \frac{x}{2.8 \text{ cm}} \quad x = 2.8(2.3)$$

$$\boxed{x = 6.44 \text{ feet}}$$

$$\textcircled{2} \frac{60 \text{ in}}{12 \text{ in}} = \frac{80 \text{ in}}{12 \text{ in}} \quad \frac{A}{m} = \frac{2.3 \text{ ft}}{1 \text{ cm}} = \frac{5 \text{ ft}}{x} = 2.3x = 5$$

$$\boxed{x = 2.17 \text{ cm}}$$

$$5 \text{ ft} \times 6.7 \text{ ft}$$

$$\frac{A}{m} = \frac{2.3 \text{ ft}}{1 \text{ cm}} = \frac{6.7 \text{ ft}}{x} = 2.3x = 6.7$$

$$\boxed{x = 2.9}$$

$$\textcircled{3} \frac{39 \text{ in}}{12} \times \frac{75 \text{ in}}{12} \quad \frac{A}{m} = \frac{2.3 \text{ ft}}{1 \text{ cm}} = \frac{3.25}{x} = 2.3x = 3.25$$

$$\boxed{x = 1.41 \text{ cm}}$$

$$3.25 \text{ ft} \times 6.25 \text{ ft}$$

$$\frac{A}{m} = \frac{2.3 \text{ ft}}{1 \text{ cm}} = \frac{6.25}{x} = 6.25 = 2.3x$$

$$\boxed{x = 2.7 \text{ cm}}$$

$$\textcircled{4} \frac{50 \text{ in}}{12 \text{ in}} = \frac{4.17 \text{ ft}}{\text{TV}} \quad \frac{A}{m} = \frac{2.3}{1 \text{ cm}} = \frac{x}{2.5 \text{ cm}} \quad x = 2.3(2.5)$$

$$\boxed{x = 5.75 \text{ ft}} \quad \text{wall}$$

YES

$$\text{wall } 5.75 > 4.17 \text{ TV}$$

$$\textcircled{5} \frac{a}{m} = \frac{2.3 \text{ ft}}{1 \text{ cm}} = \frac{x}{1.5 \text{ cm}} \quad x = 3.45 \text{ ft} \times 12 \text{ in} = 41.4 \text{ in}$$

$$\frac{a}{m} = \frac{2.3 \text{ ft}}{1 \text{ cm}} = \frac{x}{2.5} \quad x = 5.75 \text{ ft} \times 12 \text{ inches} = 69 \text{ inches}$$

$$\textcircled{6} \frac{A}{m} = \frac{2.3 \text{ ft}}{1 \text{ cm}} = \frac{x}{6.9} \quad x = 2.3(6.9) \quad A = LW$$

$$15.87 \text{ ft length} \quad (15.87)(12.19)$$

$$= 193.46 \text{ total floor}$$

$$\frac{A}{m} = \frac{2.3}{1 \text{ cm}} = \frac{x}{5.3 \text{ cm}} \quad x = 2.3(5.3) = 193.46 \div 20.25 =$$

$$x = 12.19 \text{ ft width} \quad = 9.55 = 10 \text{ boxes}$$

$$68.64 \times 10 = \$686.40$$