

$$\frac{(3x + 8)}{2} = -\frac{6}{3}$$

$$3(3x + 8) = (2)(-6)$$

$$\begin{array}{r} 9x + 24 = -12 \\ -24 \quad -24 \end{array}$$

$$\frac{9x}{9} = -\frac{36}{9}$$

$$x = -4$$

$$\left(\frac{(3x + 8)}{2} = -\frac{6}{3} \right) 6$$

$$6 \left(\frac{(3x + 8)}{2} \right) = 6 \left(-\frac{6}{3} \right)$$

$$3(3x + 8) = (2)(-6)$$

$$\frac{(2)(3x + 8)}{2} = -2(2)$$

$$3x + 8 = -4$$

$$2(x + 8) - x = 5x + 8$$

$$2x + 16 - x = 5x + 8$$

$$\begin{array}{r} x + 16 = 5x + 8 \\ -x \qquad -x \end{array}$$

$$\begin{array}{r} 16 = 4x + 8 \\ -8 \qquad -8 \\ \hline \end{array}$$

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

$$2 = x$$

$$6 : x = 9 : 12$$

$$\frac{6}{x} = \frac{9}{12}$$

$$9x = 72$$

$$x = 8$$

$$6 : x = 3 : 4$$

$\times 2 \quad \times 2$

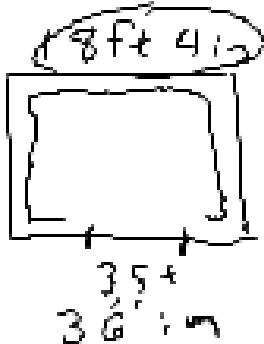
$$x = 8$$

- ICA - Friday
- Solving equations
 - Ratios
 - $1:1$
 - $1:3$

Homework Review

\$1.69/ft

15, 16, 22 220 in

15a)  $(18 \text{ ft } 4 \text{ in}) \times 4$
 $= 18 \text{ ft} \times \frac{12 \text{ in}}{1 \text{ ft}} = 216 \text{ in}$
 35 in
 36 in

$$(220 \text{ in}) \times 4 = 880 \text{ in} - 36 \text{ in} = 844 \text{ in}$$

$$844 \text{ in} \times \frac{1 \text{ ft}}{12 \text{ in}} = 70.3333 \dots \text{ ft}$$

$$70.3333 \dots \text{ ft} \times \frac{\$1.69}{\text{ft}} = \$118.86$$

16 puzzle tower puzzle tower in

$$1 : 360 = 35.4 \text{ in} : x$$

(ft)

$$\frac{1}{360} = \frac{35.4}{x}$$

$$x = (360)(35.4)$$

$$x = 12744 \text{ in}$$

$$12744 \text{ in} \times \frac{1 \text{ Ft}}{12 \text{ in}} = \boxed{1062 \text{ Ft}}$$

22.

$$0.4 \text{ in} : \$10 = 100 \text{ mi} : x$$

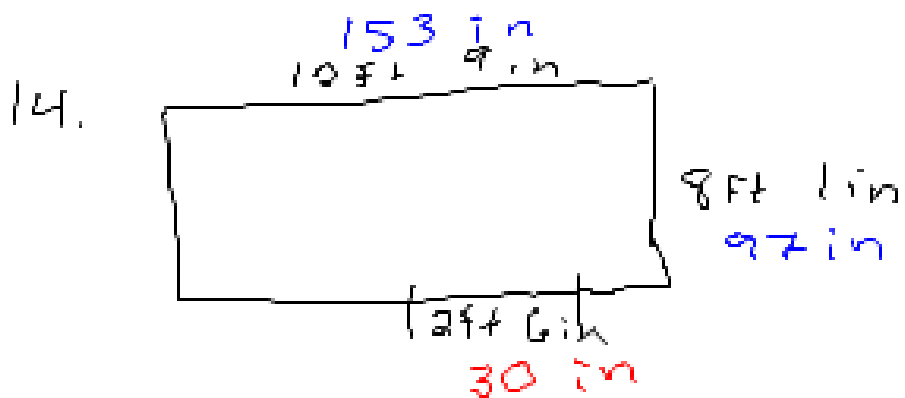
$$100 \text{ mi} \times \frac{1760 \text{ yd}}{1 \text{ mi}} \times \frac{3 \text{ Ft}}{1 \text{ yd}} \times \frac{12 \text{ in}}{1 \text{ Ft}} =$$

$$6\,336\,000 \text{ in}$$

$$0.4 \text{ in} : \$10 = 6\,336\,000 : x$$

$$\frac{0.4}{10} = \frac{6\,336\,000}{x}$$

$$\frac{0.4x}{0.4} = \frac{63\,360\,000}{0.4} \quad x = \$158\,400\,000$$



$$P = 2l + 2w = 2(153) + 2(97) = \underline{500} \text{ in}$$

$$500 - 30$$

$$P \text{ in} - \text{Door in} = 470 \text{ in}$$

$$470 \text{ in} \times \frac{1 \text{ FT}}{12 \text{ in}} = \frac{39.16667 \cdot \text{FT}}{12} = 3.26 \dots$$

b) 4 rolls

$$c) \$12.49 / \text{roll} \cdot 4 = \$49.96$$