

9) $\frac{1}{3}(x+2) = 5$

$$\frac{1}{3}\left(\frac{x}{1}\right) + \frac{1}{3}\left(\frac{2}{1}\right)$$

$$\frac{x}{3} + \frac{2}{3} = 5$$

$$-\frac{2}{3} = -\frac{2}{3}$$

$$\frac{x}{3} = \frac{13}{3}$$

$$\times 3 \quad \frac{x}{\cancel{3}} = \frac{13}{\cancel{3}} \quad x = 13$$

- 10) Mrs. Trump wants to purchase paper to cover her bulletin board. The paper comes on a roll that is 65 inches wide and costs \$0.35 for each linear foot. Mrs. Pitt's bulletin board is $6\frac{3}{4}$ feet wide and 5.5 feet high. The office supply store also charges a \$1.53 cutting fee. Simplify the following expression to see how much it will cost to purchase enough paper to cover Mrs. Pitt's bulletin board.

← change to 6.75

$$\text{Cost} = 0.35 \left(6\frac{3}{4}\right) + 1.53$$

$$0.35(6.75) + 1.53$$

$$2.3625 + 1.53$$

$$3.8925 \rightarrow \$3.89$$

- 11) Corey is making applesauce. Each batch she makes yields $2\frac{1}{4}$ quarts of applesauce. Corey already has 1.5 quarts. She would like to have a total of $12\frac{1}{2}$ quarts before she's finished for the day. How many batches of applesauce does Corey need to make? Show all your work.

$$2\frac{1}{4}x + 1.5 = 12\frac{1}{2}$$

* change fractions to decimals

$$2.25x + 1.5 = 12.5$$

$$-1.5 = 1.5$$

$$2.25x = 11$$

$$\frac{2.25x}{2.25} = \frac{11}{2.25}$$

$$x = 4.8$$

= 5 batches