

$$1.) \frac{\$2.90}{24 \text{ pencils}} = \frac{x}{5}$$

$$24x = 2.90(5)$$

$$\frac{24x}{24} = \frac{14.5}{24}$$

$$x = \$0.60 \text{ for 5 pencils}$$

$$2.) \frac{\$4.48}{16 \text{ oranges}} = \frac{x}{6}$$

$$16x = 6(4.48)$$

$$\frac{16x}{16} = \frac{26.88}{16}$$

$$x = \$1.68 \text{ for 6 oranges}$$

$$3.) \frac{\$45,195}{12 \text{ months}} = \$3766.25/\text{month}$$

$$4.) \text{ Let } 4x = \# \text{ pink flowers} = 4(120) = 480$$

$$3x = \# \text{ red flowers} = 3(120) = 360$$

$$2x = \# \text{ yellow flowers} = 2(120) = 240$$

$$4x + 3x + 2x = 1080$$

$$\frac{9x}{9} = \frac{1080}{9}$$

$$x = 120$$

$$5.) \text{ Let Sam's earnings} = 3x = 3(14.5) = 43.50$$

$$\text{Cader's earnings} = 5x = 5(14.5) = 72.50$$

$$3x + 5x = 116$$

$$\frac{8x}{8} = \frac{116}{8} \rightarrow x = 14.5$$

58

$$6.) \frac{\$3210}{120 \text{ Shares}} = \$26.75/\text{share}$$

$$7.) \frac{\frac{2}{3} \text{ cups flour}}{\frac{1}{4} \text{ cups sugar}} = \frac{8}{x}$$

$$\frac{2}{3}x = \frac{1}{4}(8)$$

$$13) \frac{2}{3}x = 2(3)$$

$$\frac{2x}{6} = \frac{6}{2}$$

$$x = 3 \text{ cups } \text{~~flour~~ sugar}$$

$$8.) \frac{6 \text{ games} - x}{9 \text{ base hits } 24}$$

$$9x = 6(24)$$

$$\frac{9x}{9} = \frac{144}{9}$$

$$x = 16 \text{ games}$$

$$9.) \text{ let } 3x = \# \text{ of boys} = 3(4) = 12$$
$$4x = \# \text{ of girls} = 4(4) = 16$$

ans

$$3x + 4x = 28$$

$$\frac{7x}{7} = \frac{28}{7}$$

$$x = 4$$

10.) Let 1st CI = x ^{ans} = 15
 2nd CI = $x+1$ = 16
 3rd CI = $x+2$ = 17

$$x + x + 1 + x + 2 = 48$$

$$3x + 3 = 48$$

$$\begin{array}{r} -3 \quad -3 \\ \hline 3x = 45 \\ \hline x = 15 \end{array}$$

* 11.) Let $x = \#$ = 12

⁴² ⁴ ⁴
 $\frac{1}{5}x = \frac{1}{4}x + 3 \rightarrow \frac{1}{2}x - 3 = \frac{1}{4}x$

$$2x = x + 12$$

$$\begin{array}{r} -x \quad -x \\ \hline x = 12 \end{array}$$

12.) $\frac{2}{5}(75) = 30$ ^{15 spent}
 $75 - 30 = 45$ left

13.) $2x + 8 = x - 3$
~~12~~ ~~7~~

$$12(x-3) = 7(2x+8)$$

$$12x - 36 = 14x + 56$$

$$\begin{array}{r} -12x \quad -12x \\ \hline -36 = 2x + 56 \\ -56 \quad -56 \\ \hline -92 = 2x \\ \hline x = -46 \end{array}$$

$x = -46$