

Warm up:

Two books and one sweatshirt cost \$36. Five books and 3 sweatshirts cost \$104. how much money does each item cost?

$$3(2b + s) = 36$$

$$5b + 3s = 104$$

$$6b + 3s = 108$$

$$-(5b + 3s = 104)$$

$$b = 4$$

Books → \$4
Sweatshirts → \$28

$$8s = 36$$

$$-8 \quad -8$$

$$s = 28$$

HW Solutions

④

$$l = 2w + 3$$

$$2l + 2w = 84$$

$$2(2w + 3) + 2w = 84$$

$$4w + 6 + 2w = 84$$

$$6w + 6 = 84$$

$$\frac{6w + 6}{6} = \frac{84}{6}$$

$$w = 13$$

width $\rightarrow 13$ cm
length $\rightarrow 29$ cm

$$\begin{aligned} 2(13) + 3 \\ 26 + 3 \\ 29 \end{aligned}$$

②

$$w = 4l$$

$$w + l = 85$$

$$4l + l = 85$$

$$\frac{5l}{5} = \frac{85}{5}$$

$$l = 17$$

$$\begin{array}{r} 17 \\ \times 4 \\ \hline 68 \end{array}$$

larry \rightarrow \$17
wendy \rightarrow \$68

$$(13) \quad s + m = 288$$

$$s + 92 = m$$

$$\begin{array}{l} 98 \text{ sailboats} \\ 190 \text{ motorboats} \end{array}$$

$$98 + 92$$

$$s + s + 92 = 288$$

$$2s + 92 = 288$$

$$\begin{array}{r} -92 \\ -92 \end{array}$$

$$2s = 196$$

$$\frac{2s}{2} = \frac{196}{2}$$

$$s = 98$$

$$\textcircled{3} \quad k = m + 22$$

$$k + m = 96$$

$$m + 22 + m = 96$$

$$2m + 22 = 96$$

$$- 22 \quad - 22$$

$$2m = 74$$

$$\frac{2m}{2} = \frac{74}{2}$$

$$m = \textcircled{37}$$

Michelle \rightarrow \$37
Kary \rightarrow \$59

1) Mark has \$12 more than twice as much as Barry. Together they have \$231. How much money does each person have?

2) A landscaping company placed two orders with a nursery. The first order was for 13 bushes and 4 trees, and totaled \$487. The second order was for 6 bushes and 2 trees, and totaled \$232. The bills do not list the per-item price. What were the costs of one bush and of one tree?

3) Tickets to a concert cost \$8 for adults and \$6 for children. If 127 tickets were sold and they brought in a total of \$950, how many of each type of ticket were sold?

4) Brenda's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 3 senior citizen tickets and 9 child tickets for a total of \$75. The school took in \$67 on the second day by selling 8 senior citizen tickets and 5 child tickets. What is the price each of each type of ticket?

5) Six grapefruits cost as much as a dozen oranges. The cost of a dozen grapefruits and two dozen oranges is \$12. How much does one grapefruit cost?

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$$8a + 6c = 950$$

$$a + c = 127$$

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