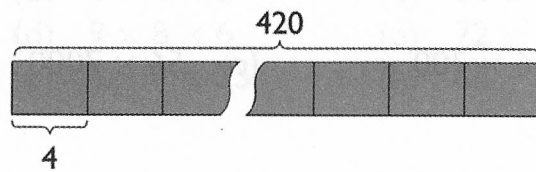


## 7 Word Problems

Alicia bought 420 mangoes for \$378. She packed the mangoes in bags of 4 mangoes each and sold all the mangoes at \$6 per bag. How much money did she make?



$$420 \div 4 = 105$$

There were 105 bags of mangoes.

4 mangoes in 1 bag

420 mangoes in ■ bags.



1 bag for \$6

105 bags for \$■

$$\$6 \times 105 = \$630$$

Alicia sold the mangoes for \$630.



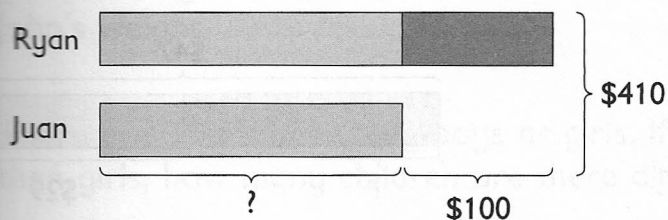
Selling price – Cost price = ■

$$\$630 - \$378 = \$\blacksquare 252$$

Alicia made \$■. 252



Ryan and Juan shared \$410 between them. Ryan received \$100 more than Juan. How much money did Juan receive?



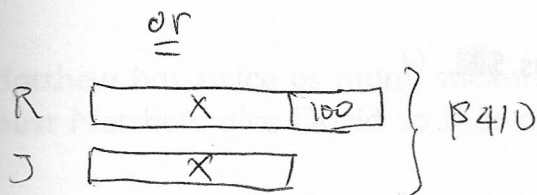
Give Ryan \$100 first and divide the remaining money into two units.

$$2 \text{ units} = \$410 - \$100$$

$$= \$310$$

$$1 \text{ unit} = \$155$$

Juan received \$155



$$x + 100 + x = 410$$

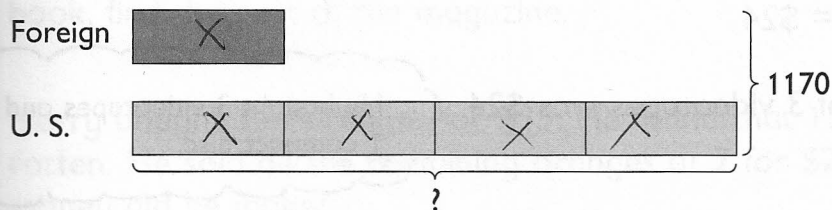
$$2x + 100 = 410$$

$$2x = 410 - 100 = 310$$

$$\frac{2x}{2} = \frac{310}{2}$$

$$x = 155$$

Peter collected a total of 1170 stamps. He collected 4 times as many U.S. stamps as foreign stamps. How many U.S. stamps did he collect?



$$x + x + x + x + x = 1170$$

$$\frac{5x}{5} = \frac{1170}{5}$$

$$\Rightarrow x = 234$$

(foreign)

$$US = 4x = 4(234)$$

$$= 936$$

Workbook Exercise 9

3. Mr. Given bought 2 similar T-shirts and a belt. He paid \$50 to the cashier and received \$3 change. If the belt cost \$29, find the cost of each T-shirt.

$$\$50 - \$3 = \$47$$

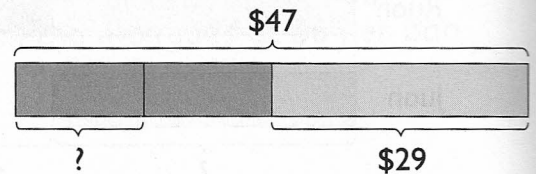
Mr. Given spent \$47.

$$\$47 - \$29 = \$18$$

The T-shirts cost \$18.

$$\$18 \div 2 = \$\blacksquare \quad 9$$

The cost of each T-shirt was \$ $\blacksquare$ . 9



The total cost of 2 T-shirts and 1 belt is \$47.



4. Henry bought a compact disc and 3 videotapes. The compact disc cost \$16. If a compact disc cost twice as much as a videotape, how much did he spend altogether?

$$\$16 \div 2 = \$8$$

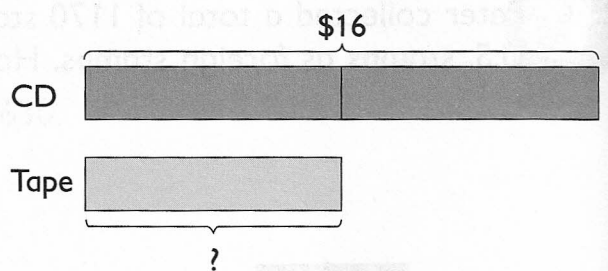
A videotape cost \$8.

$$\$8 \times 3 = \$24$$

The cost of 3 videotapes was \$24.

$$\$24 + \$16 = \$\blacksquare \quad 40$$

He spent \$ $\blacksquare$  altogether.



He bought 3 videotapes and 1 compact disc.

