

## 2.1 Word Problems - Day 2

Steps: 1. Read carefully.

(Take notes, draw pictures...)

2. Identify variable(s). [form: "let x ="]

(May have to identify more than one item)

3. Set up the equation.

(Pay attention to keywords; simpler problems)

4. Solve the equation.

5. Answer and check.

1. In a game, Bert's score was twice Jose's score. Their scores added up to 90. Find each score.

$$\begin{aligned} \text{let } x &= \text{Jose's score} \\ 2x &= \text{Bert's score} \\ x + 2x &= 90 \\ 3x &= 90 \\ x &= \frac{90}{3} \\ x &= 30 \end{aligned}$$

$2x$   
 $2(30)$   
 $60$

Jose's score was 30 points.  
Bert's score was 60 points.

2. In his will, Uncle Clarence left \$5000 to his two nieces. Emma's share is to be \$500 more than Clara's. How much should each niece receive?

let  $x$  = Clara's share

$x + 500$  = Emma's share

$$x + (x + 500) = 5000$$

$$x + x + 500 = 5000$$

$$2x + 500 = 5000$$

$$2x = 5000 - 500$$

$$2x = 4500$$

$$x = \frac{4500}{2}$$

$$x = 2250$$

$$\begin{aligned} x + 500 \\ 2250 + 500 \\ 2750 \end{aligned}$$

Clara's share is \$2250.  
Emma's share is \$2750.

# HOMEWORK

Worksheet - HW 2.1 Word Problems  
Day 2