

# Problem 4

A girl is watching the skateboards at a sports shop. The Blue Skateboard costs 12.95 \$ less than the Wizard Skateboard but 8.47 \$ more than the Silver Skateboard . What's the price of each skateboard if the sum of their prices is 160.00 \$ ?

## 1) The unknown

The unknown is the price of the Blue Skate

## 2) Table

Wizard Skate's price	$x + 12.95$
Blue Skate's price	$x$
Silver Skate's price	$x - 8.47$
The sum of the prices	160.00

## 3) Equation

$$160 = x + (x + 12.95) + (x - 8.47)$$

$$160 = 2x + 12.95 + x - 8.47$$

$$3x = 160 - 12.95 + 8.47$$

$$3x = 155.52$$

$$x = 155.52 / 3 = 51.84$$

## 4) Result

- Blue Skate= \$51.84\$
- Silver Skate=  $51.84 - 8.47 = 43.37$ \$
- Wizard Skate=  $51.84 + 12.95 = 64.79$ \$

## 5) Reasoning

The unknown is the price of blue skate so the price of Silver Skate is  $x - 8.47$ , but the price of Wizard Skate is  $x + 12.95$ .

The equation is  $160 = x + (x + 12.95) + (x - 8.47)$ .

The results of the problem are: the price of the blue skate is 51.84\$, the price of the Silver Skate is 43.37\$ and the price of the Wizard Skate is 64.79\$.