

Name \_\_\_\_\_

Date \_\_\_\_\_

## Word Problems Leading to Equations - Guided Lesson Explanation

### Explanation#1

Solve for x.

$$\frac{2}{4}x - 5 = -17$$

$$\frac{2}{4}x = -17 + 5$$

$$\frac{2}{4}x = -12$$

$$x = -12 \times \frac{4}{2}$$

$$x = -24$$

### Explanation#2

He had \$30. He purchased 5 paper weights. He had \$15.50 left.

$x$  = cost of a paper weight

$$30 = 15.50 + 5x$$

$$5x = 30 - 15.50$$

$$X = 14.5/5$$

$$X = 2.9$$

The cost of each paper weight is \$2.90.



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### Explanation#3

Elizabeth has \$80. She spent \$20 on a plane ticket and 2 luggage bags. The luggage had an equal cost.

The equation is:  $20 + x + x = 80$

$$20 + 2x = 80$$

$$2x = 80 - 20$$

$$2x = 60$$

$$X = 60/2$$

$$X = 30$$

So the price of one mug is \$30.00.

