

Linear Equations Word Problems Worksheets

1. Lisa has a certain amount of money. She spent \$39 and has $\frac{3}{4}$ of the original amount left. How much money did she have originally?

2. The length of a rectangle is 4 more than 3 times the width. If the perimeter of the rectangle is 18.4 *cm*, what is the area of the rectangle.

3. Eight times the result of subtracting 3 from a number is equal to the number increased by 25. What is the number?

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1. Lisa has a certain amount of money. She spent \$39 and has $\frac{3}{4}$ of the original amount left. How much money did she have originally?

Let x be the amount of money Lisa had originally.

$$x - 39 = \frac{3}{4}x$$

$$-39 = -\frac{1}{4}x$$

$$156 = x$$

Lisa had \$156 originally

2. The length of a rectangle is 4 more than 3 times the width. If the perimeter of the rectangle is 18.4 cm, what is the area of the rectangle.

Let x represent the width of the rectangle.

$$2(4 + 3x) + 2x = 18.4$$

$$8 + 6x + 2x = 18.4$$

$$8 + 8x = 18.4$$

$$8x = 10.4$$

$$x = \frac{10.4}{8}$$

$$x = 1.3$$

The width of the rectangle is 1.3 cm, and the length is 7.9 cm, so the area is 10.27 cm².

3. Eight times the result of subtracting 3 from a number is equal to the number increased by 25. What is the number?

Let x be the number.

$$8(x - 3) = x + 25$$

$$8x - 24 = x + 25$$

$$7x - 24 = 25$$

$$7x = 49$$

$$x = 7$$

The number is 7.