

Algebra Word Problem (Digit Word Problem)

The sum of the digits of a two-digit number is 12. If the digits are reversed, the new number is 18 greater than the original number. Find the original number.

Solution:

Define the variables:

Let the original number be $10x + y$, where:

x = tens digit.

y = units digit.

Set up the equations:

The sum of the digits is 12:

$$x + y = 12$$

When the digits are reversed, the new number is $10y + x$.

This number is 18 greater than the original number:

$$10y + x = (10x + y) + 18$$

Solve the equations:

$$10y + x = 10x + y + 18$$

$$10y - y + x - 10x = 18$$

$$9y - 9x = 18$$

$$y - x = 2$$

Substitute $y = 12 - x$ into $y - x = 2$

$$(12 - x) - x = 2$$

$$12 - 2x = 2$$

$$-2x = -10$$

$$x = 5$$

$$y = 12 - 5 = 7$$

Answer:

$$\begin{aligned}\text{Original number} &= 10x + y \\ &= 10(5) + 7 = 57\end{aligned}$$

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