



If $0.5x + 5 + 2 = x + 2 - 0.75$, then the value of x is:

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5.5

9.5

11.5

13.5

Show Answer...

Correct Answer: 11.5

If $0.5x + 5 + 2 = x + 2 - 0.75$, then the value of x is:

A. 5.5

B. 9.5

C. 11.5

D. 13.5

Explanation:

$$0.5x + 5 + 2 = x + 2 - 0.75$$

$$\Rightarrow 0.5x + 5 = x - 0.75$$

$$\Rightarrow 5 + 0.75 = x - 0.5x$$

$$\text{OR } x - 0.5x = 5 + 0.75$$

$$\Rightarrow 0.5x = 5.75 =$$

$$\Rightarrow x = 5.75 / 0.5$$

$$\Rightarrow \mathbf{x = 11.5}$$

Another Method:

Let's solve the given equation:

$$\mathbf{0.5x + 5 + 2 = x + 2 - 0.75}$$



If $0.5x + 5 + 2 = x + 2 - 0.75$, then the value of x is:

We can simplify the equation by combining like terms:

$$0.5x + 7 = x + 1.25$$

Subtracting $0.5x$ from both sides, we get:

$$7 = 0.5x + 1.25$$

Subtracting 1.25 from both sides, we get:

$$5.75 = 0.5x$$

Multiplying both sides by 2 , we get:

$$11.5 = x$$

Therefore, the value of x is **11.5**.



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