

NAME: \_\_\_\_\_



## Purpose

To know how to solve for variables that represent missing decimal addends

## Math Words

**addends**

In the equation  $11 + \square = 16$ , 11 and the missing number are addends, and their sum is 16.

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**tenths**

One whole can be represented as 10 tenths.

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**variable**

In the equation  $x + 2 = 8$ ,  $x$  is an unknown quantity called a variable. When  $x$  appears in equations, we are often asked to solve for  $x$ .

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### Starter Problem

Solve for  $x$ . Think about the meaning.

$$2.4 + x = 5$$

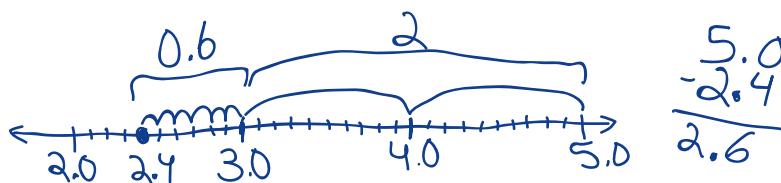
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**Starter Problem**Solve for  $x$ . Think about the meaning.

$$2.4 + x = 5$$

**Student Thinking**

I see that  $x$  is a missing addend. I drew a number line and marked it in tenths. I started at 2.4 and moved 6 tenths to get to 3, then moved 2 whole units more to get to 5. The missing addend is 2.6. I get the same answer if I subtract 2.4 from 5.



I knew I had to add, so I added 2.4 and 5. I got  $x$  equals 7.4.

**Pitfall**

$$\begin{array}{r} 5 \\ + 2.4 \\ \hline 7.4 \end{array}$$

**Things to Remember**

- \* \_\_\_\_\_
- \* \_\_\_\_\_
- \* \_\_\_\_\_
- \* \_\_\_\_\_



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## Our Turn

Solve for the variable.

1.  $3.6 + n = 6.0$        $n =$  \_\_\_\_\_

2.  $x + 4.8 = 5$        $x =$  \_\_\_\_\_

3.  $3.4 = 2 + n$        $n =$  \_\_\_\_\_

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## My Turn

Solve for the variable.

1.  $3.8 + n = 5$        $n =$  \_\_\_\_\_

2.  $x + 0.5 = 4$        $x =$  \_\_\_\_\_

3.  $4.9 = 1 + n$        $n =$  \_\_\_\_\_

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**Multiple Choice Mini Lesson**

Fill in the circle next to the answer you choose.

1.  $0.9 + n = 10.0$   $n =$  \_\_\_\_\_

☐ 10.1☐ 9.9☐ 9.1☐ 10.9

2.  $x + 1.5 = 4.3$   $x =$  \_\_\_\_\_

☐ 2.5☐ 2.8☐ 3.8☐ 5.8

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**Writing Task Mini Lesson**

Explain how you know  $n = 5.4$  is the solution to Problem B and not to Problem A. You may make a drawing to help you explain.

**A.**  $2 + n = 3.4$

**B.**  $3 + n = 8.4$



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