

## 3.OA.D.8 Finding the Unknown

3.OA.D.8: Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.

Read and solve the word problems below.

1. Zebbie scored 18 more points than Rico in their last examination. Rico scored 7 points. Use the equation below to find out the number of points Zebbie scored. Find the value of 'y'.

$$y - 7 = 18$$

2. The tellers entertained a total of 44 customers yesterday. Today, they entertained 63 customers. Solve the equation below to find how many more customers the tellers entertained today than yesterday. Find the value of 'z'.

$$44 + z = 63$$

3. Dahlia bought 7 ballpens for \$0.5 each. How much did Dahlia spend in all? Write an equation and solve it.

4. Father bought a dozen mangoes for his 4 grandchildren. How many mangoes will each grandchild receive? Write an equation and solve it.

Write +, -, ×, or ÷ on the space to balance each equation.

5.  $7 \underline{\hspace{1cm}} 5 = 6 \times 2$

6.  $8 \underline{\hspace{1cm}} 8 = 60 + 4$

7.  $20 - 2 = 6 \underline{\hspace{1cm}} 3$

8.  $5 \underline{\hspace{1cm}} 3 = 60 \div 4$

9.  $40 \div 5 = 9 \underline{\hspace{1cm}} 1$

10.  $18 \div 3 = 5 \underline{\hspace{1cm}} 1$

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### Answer Key

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Read and solve the word problems below.

1. Zebbie scored 18 more points than Rico in their last examination. Rico scored 7 points. Use the equation below to find out the number of points Zebbie scored. Find the value of 'y'.

$$y - 7 = 18$$

$$y = 18 + 7, y = 25$$

2. The tellers entertained a total of 44 customers yesterday. Today, they entertained 63 customers. Solve the equation below to find how many more customers the tellers entertained today than yesterday. Find the value of 'z'.

$$44 + z = 63$$

$$z = 63 - 44, z = 19$$

3. Dahlia bought 7 ballpens for \$0.5 each. How much did Dahlia spend in all? Write an equation and solve it.

$$\$0.5 \times 7 = \$3.5$$

4. Father bought a dozen mangoes for his 4 grandchildren. How many mangoes will each grandchild receive? Write an equation and solve it.

$$12 \div 4 = 3$$

Write +, -, × or ÷ in the space to balance each equation.

5.  $7 \underline{+} 5 = 6 \times 2$

6.  $8 \underline{\times} 8 = 60 + 4$

7.  $20 - 2 = 6 \underline{\times} 3$

8.  $5 \underline{\times} 3 = 60 \div 4$

9.  $40 \div 5 = 9 \underline{-} 1$

10.  $18 \div 3 = 5 \underline{+} 1$