

3.OA.D.8 Writing Expressions and Equations

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.

Write +, −, ×, or ÷ on the space provided to complete each equation.

1. $3 \underline{\hspace{1cm}} 5 = 45 \div 3$

6. $30 + 6 = 6 \underline{\hspace{1cm}} 6$

2. $28 \underline{\hspace{1cm}} 6 = 11 \times 2$

7. $13 \underline{\hspace{1cm}} 5 = 40 \div 5$

3. $34 \underline{\hspace{1cm}} 4 = 6 \times 5$

8. $8 + 8 = 9 \underline{\hspace{1cm}} 7$

4. $8 \underline{\hspace{1cm}} 3 = 26 - 2$

9. $49 \div 7 = 9 \underline{\hspace{1cm}} 2$

5. $37 \underline{\hspace{1cm}} 2 = 5 \times 7$

10. $15 - 5 = 6 \underline{\hspace{1cm}} 4$

Write an expression out of the given problem and then write the equation to solve the problem.

11. There are 24 people in the plaza. Later, another 7 people came. How many people are there in the plaza?

Answer (Expression, Equation): _____

12. Louisa has \$98 in her savings account. Cynthia has \$75 on her account. How much more money does Louisa have than Cynthia?

Answer (Expression, Equation): _____

13. There are 64 pizza slices that are to be equally distributed to 8 visitors. How many pizza slices will each visitor get?

Answer (Expression, Equation): _____

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Answer Key

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6. $30 + 6 = 6 \times 6$

2. $28 - 6 = 11 \times 2$

7. $13 - 5 = 40 \div 5$

3. $34 - 4 = 6 \times 5$

8. $8 + 8 = 9 + 7$

4. $8 \times 3 = 26 - 2$

9. $49 \div 7 = 9 - 2$

5. $37 - 2 = 5 \times 7$

10. $15 - 5 = 6 + 4$

Write an expression out of the given problem and then write the equation to solve the problem.

11. There are 24 people in the plaza. Later, another 7 people came. How many people are there in the plaza?

Answer (Expression, Equation): $24 + 7, 24 + 7 = 31 \text{ people}$

12. Louisa has \$98 in her savings account. Cynthia has \$75 on her account. How much more money does Louisa have than Cynthia?

Answer (Expression, Equation): $\$98 - \$75, \$98 - \$75 = \$23$

13. There are 64 pizza slices that are to be equally distributed to 8 visitors. How many pizza slices will each visitor get?

Answer (Expression, Equation): $64 \div 8, 64 \div 8 = 8$