One-Step Equations Study Guide

1. What are inverse operations? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Write 3 key words that tell you to do addition, and 3 key words that tell you to do subtraction in a word problem.

+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Jack’s candy shop sold 8 lollipops today. He now has only 5 lollipops left to sell. How many lollipops did he have originally?

|  |  |
| --- | --- |
| http://images2.wikia.nocookie.net/__cb20100827193460/clubpenguin/images/8/86/Lollipop_Pin.PNGDraw a Picture:  Solution: | Write your equation & ***Show ALL steps***: |
| What does your variable represent? | Key Words: |

1. Alex has some flowers and picks two more for her bouquet. She now has 11 flowers. How many did she start out with?

|  |  |
| --- | --- |
| Draw a Picture:  Solution: | Write your equation and ***show ALL steps***: |
| What does your variable represent? | Key Words: |

5. Mrs. Ledesma has x dollars. Amanda has 3 times more dollars than Mrs. Ledesma. If Amanda has $90, write an equation and solve for the number of dollars Mrs. Ledesma has.

Equation:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Solution:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Work:

6. Raquel spends half as many hours doing homework as her older brother, Pedro. If Pedro spends 4 hours

doing homework, write an equation and solve for the number of hours, x, that Raquel does homework.

Equation:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Solution:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Work:

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1. What are inverse operations? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Equation:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Solution:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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6. Raquel spends half as many hours doing homework as her older brother, Pedro. If Pedro spends 4 hours

doing homework, write an equation and solve for the number of hours, x, that Raquel does homework.

Equation:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Solution:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Work:

SHOW ALL STEPS for the following equations. Include the “check”. Incomplete work will not be accepted.

**SOLVE CHECK**

7. m + 25 = 39 Solution:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. 12x = 138 Solution:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. z – 29 = 8 Solution:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10.  Solution:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



11. Solution:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12.  Solution:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13.  Solution:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



14. Solution:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

15. Create your own word problem. Write an equation and show all work to solve.

SHOW ALL STEPS for the following equations. Include the “check”. Incomplete work will not be accepted.

**SOLVE CHECK**

7. m + 25 = 39 Solution:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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