**Algebra Test Review ☺**

***Please also review your math spiral, math textbook (pages 164-167, 124-125, and 128-129)***

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Number: \_\_\_\_\_\_\_\_**

**Solve for the variable**.

1. y – 5 = 0 y= \_\_\_\_\_\_\_

2. 7 + y = 12 y= \_\_\_\_\_\_\_

3. 8 + y = 11 y= \_\_\_\_\_\_\_

4. y – 9 = 12 y= \_\_\_\_\_\_\_

 **5. Isaiah earns $8 for every cup he sells. Fill out the function table if he sells 12, 13, and 14 cups. Use g for the input variable and y for the output vari-able**.

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6. **Solve using PEMDAS**: 7 + (10-1) ÷ 3 + 5

**7. Write an equation for $60 split among 3 friends. Use f for your variable.**

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

**8. Abby has a coupon for $8 off the price of an item. If k represents the original price of a shirt, write an expression that tells Abby’s cost when she uses the coupon.**

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

**9. Mrs. Batten has 42 yards of fabric. She uses 8 yards for a project and then buys 4 more yards from the fabric store. Write a number sentence can be used to show the amount of fabric she has left.**

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

***Write an algebraic expressions for each of the following (use n for your variable):***

10. four times a number, plus 12 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11. seven less than a number times 3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. fourteen minus three times a number \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Divide using Standard Algorithm:**

13. 5,456 ÷ 24 =

|  |  |
| --- | --- |
| In  | Out |
| 1 |  |
| 2 |  |
| 3 |  |

**Complete the table, graph the data, and connect your data points:**

14. Rule: Add 2

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**15. Finish the Function Table:**

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| --- | --- | --- |
|  b | 7b + 8 = m |  m |
|  2 |  |  |
|  3 |  |  |
|  4 |  |  |

**16. One of the American lizard’s favorite foods is ants. It can eat up to 60 ants per minute. How long would it take it to eat 540 ants?**

17. **Solve. 12/n** if n = 4. \_\_\_\_\_\_\_\_\_\_\_\_

**18. Write an equation that models Distributive Property.**

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

**19. Fill in the part-part-whole diagram to represent the following equation:**

H – 15 = 12

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| --- | --- |
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**Write an integer that represents the following situations:**

20. Jen earned 9 points. \_\_\_\_

21. I dropped off 17 friends. \_\_\_\_

**22. Solve using standard algorithm**

4,442 ÷ 19 =

**23. Suzanne bought 4 boxes of cookies for a party. Each box contained 75 cookies. Write a number sentence that could be used to find out how many cookies were left if 3 dozen were eaten at the party.**

**24. Review the Order of Operations (PEMDAS). Make sure you understand what each operation is.**

**25. Fill in the multiplication diagram to match the following equation:**

3b = 90

|  |  |  |
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**Solve using standard algorithm (decimal must be very clear in your final answer).**

26. 8.6 X 2.7 =

27. 24.6 ÷ 82 =

**28. Fill in the missing blanks regarding the Distributive Property:**

87 X 30 = 30 ( \_\_\_\_ - 3)

 = (30 X 90) - (30 X \_\_\_\_)

 = \_\_\_\_\_\_ - \_\_\_\_\_\_\_\_

 = \_\_\_\_\_\_\_\_\_