

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 variable.

6. Solve using PEMDAS: $7 + (10 - 1) \div 3 + 5$

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. $5,456 \div 24 =$

Divide using Compatible Numbers:

14. $3,457 \div 72 =$

15. Finish the Function Table:

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. Show an equation that models Distributive Property.

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

$$H - 15 = y$$

Write an integer that represents the following situations:

20. Jen earned 9 points. _____

21. I dropped off 17 friends. _____

22. Solve using standard algorithm

$$4,442 \div 19 =$$

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 Diagram in your math spiral. Make sure you understand what each operation is.

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

$$3b = 90$$

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

26. $8.6 \times 2.7 =$

27. $24.6 \div 8.2 =$

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

$$\begin{aligned}
 87 \times 30 &= 30 (\quad - 3) \\
 &= (30 \times 90) - (30 \times \quad) \\
 &= \quad - \quad \\
 &= \quad
 \end{aligned}$$