

Name: _____ Class: _____ Date: _____

Unit Test Review

Algebra I

What are the seven steps for solving an equation?

Solve each equation

1) $12 = x + 8$

2) $y - 4 = 21$

3) $6x = 15$

4) $n/3 = 26$

5) $4x + 17 = 39$

6) $\frac{6n}{7} - 8 = 25$

7) $4y - 8 = 8y + 22$

8) $-3y + 3 = 7y - 17$

9) $5x - 3(2x + 5) + 4 = 2x + 15$

10) $4(x + 5) - 6 = -2(3x - 4)$

11) $\frac{5x + 4}{4} = 10$

12) $5x + 3 - x - 7 = 2x + 8$

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13) $7t + 4 - t = -2 + 4t + 6 + 2t$

14) $a - 5.8 = -3$

Solve each word problem

15) Three times the sum of a number and 4 is the same as 18 more than the number.

16) Five times the difference of a number and 6 is the same as 9 less than the number.

17) The difference between 21 and three times a number is 14. Find the number.

18) The sum of three numbers is 13. The second number is three less than twice the first, and the third is two more than the first. What is the first number?

19) The *product* of two numbers is x . One of the numbers is three and the other is nine more than x . Find x .

20.) Twenty-six more than a number is equal to triple the same number. Find the number.