

Pre-Algebra MATH Brush-Up Session

If you placed into MATH 70 or a higher-level course, this might be useful for you

Solving Equations

**Solve the equations.**

1.  $x + 9 = -16$

2.  $-8x = -56$

3.  $\frac{3}{4}x = 21$

4.  $3x - 4 = 8$

5.  $\frac{1}{4}x - \frac{1}{8}x = 3 - \frac{1}{16}x$

6.  $7 + 3x - 6 = 3x + 5 - x$

7.  $\frac{3}{4}(3t - 6) = 9$

8.  $13 - (2c + 2) = 2(c+2) + 3c$

**Translate to an algebraic equation. Then solve.**

9. Three less than twice a number is 78. What is the number?

10. Five times the sum of three and twice a number is 105. What is the number?

**Answer Key:**

1.  $x = -25$    2.  $x = 7$    3.  $x = 28$    4.  $x = 4$    5.  $x = 16$    6.  $x = 4$    7.  $t = 6$

8.  $c = 1$    9.  $\frac{81}{2}$  or  $40\frac{1}{2}$    10. 9

**Need more help?** Check out these ModumathAlgebra Lessons #6-9

<http://modumath.org/mm/GraysHarbor.html>