

2-5: Literal Equations and Formulas

Name: \_\_\_\_\_  
Algebra 1

Date: \_\_\_\_\_  
Band: \_\_\_\_\_

**LT#6:** Rewrite and use literal equations and formulas.

**Solve each equation for  $m$ . Then find the value of  $m$  for each value of  $n$ .**

1.  $m + 3n = 7; n = -2, 0, 1$

2.  $3m - 9n = 24; -1, 1, 3$

3.  $-5n = 4m + 8; n = -1, 0, 1$

4.  $2m = -6n - 5; n = 1, 2, 3$

5.  $8n = -3m + 1; n = -2, 2, 4$

6.  $4n - 6m = -2; n = -2, 0, 2$

7.  $-5n = 13 - 3m; n = -3, 0, 3$

8.  $10m + 6n = 12; n = -2, -1, 0$

Solve each equation for  $x$ .

9.  $fx - gx = h$

10.  $qx + x = r$

11.  $m = \frac{x+n}{p}$

12.  $d = f + fx$

13.  $-3(x + n) = x$

14.  $\frac{x-4}{y+2} = 5$

Solve each equation for the given variable.

15.  $4k + mn = n - 3; n$

16.  $\frac{c}{d} + 2 = \frac{f}{g}; c$

17.  $3ab - 2bc = 12; c$

18.  $z = \left(\frac{x+y}{3}\right)w; y$

19.  $-3(m - 2n) = 5m; m$

20.  $A = \frac{1}{2}bcd + bc; d$