

# Solving Two-Step Equations

Multiplication & Division - Negative Coefficients

Name: \_\_\_\_\_ Date: \_\_\_\_\_



Solve the equations.

(1)  $-64 = -25 - 3x$

(2)  $63 = 7x + 21$

(3)  $-3x + 14 = 50$

(4)  $247 = 9x + 103$

(5)  $7x + 17 = 73$

(6)  $\frac{x}{17} + 2 = 5$

(7)  $-3x - 29 = -83$

(8)  $-9 = \frac{x}{-2} - 4$

(9)  $-4 + 3x = -28$

(10)  $8 = \frac{x}{10} + 3$

(11)  $28 = -12 + 4x$

(12)  $\frac{x}{-4} - 2 = -10$

13.  $\frac{b}{-2} - 8 = -6$

14.  $3d + 14 = 11$

15.  $\frac{z}{17} - 1 = 8$

Match each sentence with a two-step equation.

16. Half a dollar minus five dollars equals fifteen dollars. \_\_\_\_\_

17. Five hours more than one half of an hour equals fifteen hours. \_\_\_\_\_

18. Two less than three times the number of feet of fencing required equals twelve feet. \_\_\_\_\_

19. Eight less than the quotient of Dominick's gold score and four equals negative five. \_\_\_\_\_

20. Three times Spencer's age increased by two years equals twelve years. \_\_\_\_\_

21. Eight fewer than four times the elevation of a city equals negative five. \_\_\_\_\_

A.  $4n - 8 = -5$

B.  $3n - 2 = 12$

C.  $\frac{n}{2} + 5 = 15$

D.  $3n + 2 = 12$

~~E.  $\frac{n}{2} - 5 = 15$~~

F.  $\frac{n}{4} - 8 = -5$