

HW 4-3

Int 1

Solving Two-Step Equations

Unit 4

Instructions: For each of the following equations, you must do these 3 steps to get full credit.

- 1) Circle the variable and set up your lines.
- 2) Use Inverse Operations on BOTH SIDES.
- 3) Solve with the variable in your answer.

Remember that you can plug in your answer to the original question to check your answer!

1) $3x + 1 = 10$

$$x = 3$$

5) $-4w - 4 = 8$

$$w = -3$$

2) $-3 + 8n = -5$

6) $5 + \frac{1}{7}b = 2$

3) $4h + (-6) = 22$

$$h = 7$$

7) $2r - 3.1 = 1.7$

$$r = 2.4$$

4) $-8s - (-1) = 33$

8) $4t + 3.5 = 12.5$

9) $8m - 5.5 = 10.1$

$$m = 1.95$$

13) $\frac{1}{2} + \frac{2}{3}x = \frac{2}{5}$

$$x = -\frac{3}{20}$$

10) $9.3 - 2x = 21.9$

14) $\frac{3}{4}r - \frac{4}{3} = \frac{1}{6}$

11) $25 + \frac{11}{12}b = 47$

$$b = 24$$

15) $6m - 1 = 25$

$$m = \frac{13}{3}$$

12) $15 - \frac{1}{2}n = -3$

16) $5 + 4w = 69$

17) $-7t + 3 = -52$

$$t = \frac{55}{7}$$

21) $43 = 9t + (-2)$

$$t = 5$$

18) $9b - (-1) = 28$

22) $66 = 20y - 16$

19) $-5m - 10 = 25$

$$m = -7$$

23) $85 = 3w + 4$

$$w = 27$$

20) $46 - 3v = 58$

24) $3.5c - 2 = 8.5$

$$25) \quad 3b - 2 = 4$$

$$b = 2$$

$$27) \quad 45 - 5t = 25$$

$$t = 4$$

$$26) \quad 10 = -3t - 5$$