

## HW 4-1

## Int 1

## Solving One-Step Equations

## Unit 4

**Instructions:** For each of the following equations, you must do these 4 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.
- 4) Check your answer.

For questions #1-9, you must also graph your answer on the number line provided.

1.  $n + 5 = 7$

$$\begin{array}{r} n + 5 = 7 \\ -5 \quad -5 \\ \hline n = 2 \end{array}$$

CHECK:  
 $2 + 5 = 7$   
 $7 = 7$   
 ✓

4.  $29 = 15 + a$

$$\begin{array}{r} 29 = 15 + a \\ -15 \quad -15 \\ \hline 14 = a \end{array}$$

CHECK:  
 $29 = 15 + 14$   
 ✓

7.  $13 = x - 8$

$$\begin{array}{r} 13 = x - 8 \\ +8 \quad +8 \\ \hline 21 = x \end{array}$$

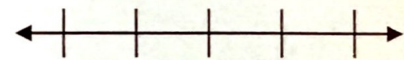
CHECK:  
 $13 = 21 - 8$   
 $13 = 13$   
 ✓



2.  $7 + z = 12$

5.  $t + 8 = 13$

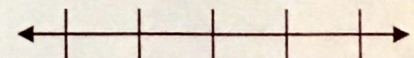
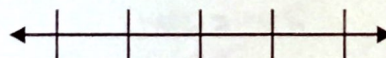
8.  $19 = m + 2$



3.  $p + 6 = 6$

6.  $18 = h + 12$

9.  $k + 16 = 40$



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10.  $9x = 63$

15.  $\frac{-6 \textcircled{r}}{-6} = 7 \cdot -6$   
 $r = -42$

CHECK:

$\frac{-42}{-6} = 7$   
 $7 = 7 \checkmark$

19.  $n + 6 = 9$

$n = 3$

CHECK:

$3 + 6 = 9 \checkmark$

11.  $\frac{42}{7} = \frac{7 \textcircled{a}}{7}$

CHECK:

$42 = 7 \cdot 6$   
 $42 = 42 \checkmark$

$a = 6$

16.  $12 = \frac{x}{3}$

20.  $-4 + z = 11$

12.  $6g = 24$

17.  $\frac{-9 \textcircled{b}}{-9} = 8 \cdot -9$

CHECK:

$\frac{-72}{-9} = 8$   
 $8 = 8 \checkmark$

$b = -72$

21.  $p + (-6) = -6$

$p = 0$

CHECK:  $0 + (-6) = -6$   
 $-6 = -6 \checkmark$

13.  $\frac{5 \textcircled{d}}{5} = \frac{45}{5}$

CHECK:

$5 \cdot 9 = 45$   
 $45 = 45 \checkmark$

$d = 9$

22.  $-9 = 15 + a$

18.  $36 = 3w$

23.  $t - (-7) = 13$

$t = 6$

CHECK:  
 $6 - (-7) = 13$   
 $6 + 7 = 13 \checkmark$

14.  $7 = \frac{x}{5}$

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24.  $-8 = h + (-12)$

28.  $8x = 64$

32.  $7 = \frac{x}{-4}$

25.  $-11 = x - 8$

$$\begin{array}{r} +8 \quad +8 \\ \hline -3 = x \end{array}$$

CHECK:  
 $-11 = -3 - 8$   
 $-11 = -11$   
 ✓

29.  $-42 = 6a$

$$\begin{array}{r} \cancel{6} \quad \cancel{6} \\ \hline -7 = a \end{array}$$

CHECK:  
 $-42 = 6 \cdot 7$   
 $-42 = -42$   
 ✓

33.  $\frac{r}{-6} = -8$

$$\begin{array}{r} \cancel{-6} \cdot \cancel{-6} \\ \hline r = 48 \end{array}$$

CHECK:  $\frac{48}{-6} = -8$   
 ✓

26.  $18 = m - (-2)$

30.  $7g = -28$

34.  $13 = \frac{x}{3}$

27.  $k + (-11) = -12$

$$\begin{array}{r} \textcircled{K} -11 \quad +11 \\ \hline k = -1 \end{array}$$

CHECK:  
 $-1 + (-11) = -12$   
 $-12 = -12$   
 ✓

31.  $-5d = -45$

$$\begin{array}{r} \cancel{-5} \quad \cancel{-5} \\ \hline d = 9 \end{array}$$

CHECK:  
 $-5 \cdot 9 = -45$   
 $-45 = -45$   
 ✓

35.  $\frac{b}{9} = -8$

$$\begin{array}{r} \cancel{9} \cdot \cancel{9} \\ \hline b = -72 \end{array}$$

CHECK:  
 $\frac{-72}{9} = -8$   
 ✓

36.  $-45 = 3w$