NAME: Period: SCORE: / = %=

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.

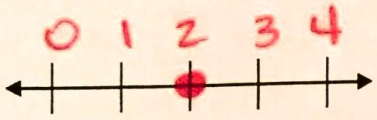
For questions #1-9, you must also graph your answer on the number line provided.

1. $n + 5 = 7$

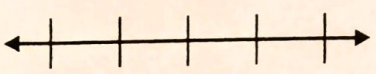
$-5 \quad -5$

$n = 2$

CHECK: $2 + 5 = 7$ ✓



2. $7 + z = 12$

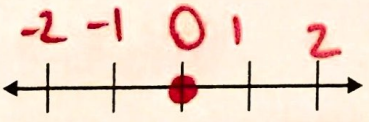


3. $p + 6 = 6$

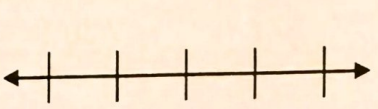
$-6 \quad -6$

$p = 0$

CHECK: $0 + 6 = 6$ ✓



4. $29 = 15 + a$

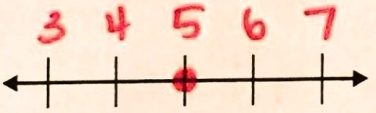


5. $t + 8 = 13$

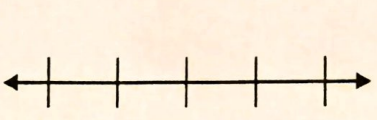
$-8 \quad -8$

$t = 5$

CHECK: $5 + 8 = 13$ ✓



6. $18 = h + 12$

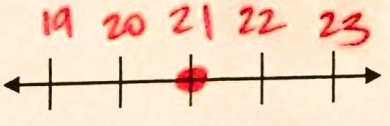


7. $13 = x - 8$

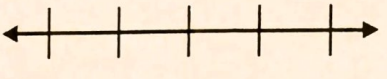
$+8 \quad +8$

$21 = x$

CHECK: $21 - 8 = 13$ ✓



8. $19 = m + 2$

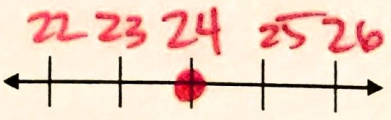


9. $k + 16 = 40$

$-16 \quad -16$

$k = 24$

CHECK: $24 + 16 = 40$ ✓



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.

10. $9x = 63$

11. $42 = 7a$

$\frac{42}{7} = \frac{7a}{7}$

$6 = a$

CHECK:
$42 = 7(6)$ ✓

12. $6g = 24$

13. $5d = 45$

$\frac{5d}{5} = \frac{45}{5}$

$d = 9$

CHECK:
$5(9) = 45$ ✓

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

15. $\frac{r}{-6} = 7$ ·-6

$r = -42$

CHECK:
$\frac{-42}{-6} = 7$ ✓

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

17. $\frac{b}{-9} = 8$ ·-9

$b = -72$

CHECK:
$\frac{-72}{-9} = 8$ ✓

18. $36 = 3w$

19. $n + 6 = 9$

$-6 \quad -6$

$n = 3$

CHECK:
$3 + 6 = 9$ ✓

20. $-4 + z = 11$

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

$+6 \quad +6$

$p = 0$

CHECK:
$0 + -6 = -6$ ✓

22. $-9 = 15 + a$

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

$+7 \quad +7$

$t = 6$

CHECK:
$6 + 7 = 13$ ✓

Instructions: For each of the following equations, you must do these 4 steps to get full credit.

5) Circle the variable and set up your lines.
6) Use Inverse Operations on BOTH SIDES.
7) Solve with the variable in your answer.
8) Check your answer.

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

25. $-11 = x - 8$

$+8 \quad +8$

$-3 = x$

CHECK:

$-3 - 8 = -11$ ✓

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

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

$+11 \quad +11$

$k = -1$

CHECK:

$-1 + (-11) = -12$ ✓

28. $8x = 64$

29. $-42 = 6a$

$\frac{-42}{6} = \frac{6a}{6}$

$-7 = a$

CHECK: $6(-7) = -42$ ✓

30. $7g = -28$

31. $-5d = -45$

$\frac{-5d}{-5} = \frac{-45}{-5}$

$d = 9$

CHECK:

$-5(9) = -45$ ✓

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

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

$r = 48$

CHECK:

$\frac{48}{-6} = -8$ ✓

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

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

$b = -72$

CHECK: $\frac{-72}{9} = -8$ ✓

36. $-45 = 3w$