

Name _____ Period _____

Score:

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Intermediate 2 Chapter 1 Review

Solve using inverse operations (show your work!).

1) $-3.2 = -2x$ 2) $\frac{3}{8}g = \frac{2}{3}$ 3) $2.2v = 58.3$ 4) $\frac{5}{6}k = 1\frac{7}{8}$

5) $\frac{3}{4} = -1\frac{3}{5}x$ 6) $9 - 5y = -76$ 7) $-37.14 = 1.8c + 30$ 8) $\frac{3}{4}h + 8 = -25$

9) $\frac{g}{3} + 10 = 14$ 10) $\frac{m+6}{-3} = -2$ 11) $\frac{w}{7} - 13 = -61$ 12) $\frac{d-6}{5} = -3$

Solve.

13) $\frac{1}{4}x - 60 = 8$ 14) $9 = 4x - 7$ 15) $\frac{m+14}{-10} = 6$

Solve each equation. Check your solution.

16) $13f = 16f + 45$ 17) $5b - 10 = 7b + 4$ 18) $6n - 8 = 2n$

19) $4 + 2w = 8w + 16$ 20) $4m + 11 = 6 - m$ 21) $-3x + 12 = 3x - 6$

22) $4 + 2r + 7 = 2r - 6$ 23) $\frac{2}{3}t - 7 = 5 - \frac{2}{3}t$ 24) $\frac{5}{6}x - 12 = \frac{1}{6}x + 12$

25) $1.4f + 1.1 = 8.3 - f$

26) $-5(w - 17) = 42$

27) $\frac{7n + (-5)}{-3} = 11$

28) $10z + 42 = 3(3z + 14) + z$

29) $35.5 = 5(a - 2.5) + 3a$

30) $8 + 4d = 28$

31) $7(8x - 12) = -2(7x + 14)$

Determine whether the solution given is correct for the equation. If the given solution is not correct, solve to find the correct solution. Remember to show your work.

32) Solution: $x = 4$
Equation: $-(7 - 4x) = 9$

33) Solution: $k = -2$
Equation: $-18 - 6k = 6(1 + 3k)$

34) Solution: All Real Numbers
Equation: $w + 7 - 4w = 2w + 7 - 5w$

35) Solution: $b = 10$
Equation: $8 + \frac{b}{-4} = 5.5$

36) Solution: $z = 0$
Equation: $z + 5 = -5z + 5$

37) Solution: $a = 2$
Equation: $24a - 22 = -4(1 - 6a)$