Name : _____ Score : _____

Teacher : _____ Date : _____

Solving Equations of Different Solution Types

Solve each equation.

1) 10 = -5z - 3 + 5z

2) -23 = 3(7 - 8n) + 24n

3) -10e + 5 + 10e = 5

4) 2(c + 3) = 8 - (-2c + 2)

5) -(8s + 7) = 5 - 8s

6) 5(t - 6) = -30 + 5t

State whether each equation has one, infinite or no solutions. If just one solution, solve for the variable.

7) 98t + 50 = 8t + 10(5 + 9t)

8) 9 + n = 3n - 2(n + 8)

9) 0 = 4c - 4c

10) 6 - 8a = 5 + 3(10 - 4a)

11) 30(e + 9) - 264 = 3(10e + 2)

12) 27 = -3(5u - 9) + 15u

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Solve each equation.

1) $10 = -5z - 3 + 5z$

No Solution

2) $-23 = 3(7 - 8n) + 24n$

No Solution

3) $-10e + 5 + 10e = 5$

Infinitely Many Solutions

4) $2(c + 3) = 8 - (-2c + 2)$

Infinitely Many Solutions

5) $-(8s + 7) = 5 - 8s$

No Solution

6) $5(t - 6) = -30 + 5t$

Infinitely Many Solutions

State whether each equation has one, infinite or no solutions. If just one solution, solve for the variable.

7) $98t + 50 = 8t + 10(5 + 9t)$

Infinitely Many Solutions

8) $9 + n = 3n - 2(n + 8)$

No Solution

9) $0 = 4c - 4c$

Infinitely Many Solutions

10) $6 - 8a = 5 + 3(10 - 4a)$

One solution, $a = \frac{29}{4}$

11) $30(e + 9) - 264 = 3(10e + 2)$

Infinitely Many Solutions

12) $27 = -3(5u - 9) + 15u$

Infinitely Many Solutions