GRADE 8 MATH · HOMEWORK · ADVANCED

Solve an Equation with One Solution

SCORE / 25

01 Part A · Practice

If the variable terms have different coefficients, the equation has exactly one solution, $x = a$.

1 ●○○ Solve $2(p + 5) + 6(p + 5) = 79 + 11p$. Then check your answer.

2 ●○○ Solve. Tell whether there is one solution, no solution, or infinitely many solutions.

$-39 + 16t = 19 + 6(3t - 9) - 3t$

3 ●○○ Simplify each side of $-28t + 29 + t = -6(4t - 6) - 2t - 13$. Compare the sides. How many solutions?

4 ●○○ Solve. Tell whether there is one solution, no solution, or infinitely many solutions.

$1 - 9(4r + 8) + 2r = -29r - 203 + r$

5 ●○○ Solve $-8(d - 11) + 4(d - 2) = 131 - d$. Then check your answer.

6 ●○○ Simplify each side of $2(4d - 1) - d - 7 = 8d$. Compare the sides. How many solutions?

7 ●○○ Solve $13 + 4(3g - 2) - 5g = 13g - 75 - 2g$. Then check your answer.

8 ●○○ Solve. How many solutions are there?

$3(4d + 4) - 2d + 16 = 16d + 46$

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Preview - the full worksheet and its answer key are at primeworksheet.com