GRADE 6 MATH · HOMEWORK

Use Substitution to Show No Values are a Solution

SCORE / 25

01 Part A · Practice

Substitute values to test an equation; if no value can make both sides equal, the equation has no solution.

1 ●○○ Test each value in {16, 18, 20, 22}. Which are solutions of $c + 25 = 47$? If none, write "none."

2 ●○○ Test $c = 5$ and $c = 6$ in $4c = 23$. Is there a whole-number solution?

3 ●○○ Substitute $y = 1$, $y = 2$, and $y = 3$ into $y + 18 = y + 13$. Can any value be a solution? Explain.

4 ●○○ Test $n = 6$ and $n = 7$ in $4n = 27$. Is there a whole-number solution?

5 ●○○ Substitute $p = 1$, $p = 2$, and $p = 3$ into $p + 19 = p + 8$. Can any value be a solution? Explain.

6 ●○○ Test each value in {1, 2, 3, 4}. Which are solutions of $6k = 26$? If none, write "none."

7 ●○○ Test $g = 11$ and $g = 12$ in $4g = 47$. Is there a whole-number solution?

8 ●○○ Substitute $p = 1$, $p = 2$, and $p = 3$ into $p + 24 = p + 18$. Can any value be a solution? Explain.

9 ●○○ Test each value in {7, 9, 10, 11}. Which are solutions of $6m = 61$? If none, write "none."

10 ●○○ Test each value in {3, 4, 5, 8}. Which are solutions of $6p = 35$? If none, write "none."

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