

Solving Multi-Step Equations Riddle Worksheet

WHY DIDN'T THE ROMANS FIND ALGEBRA CHALLENGING?

$\frac{\text{No}}{\text{Solution}}$ $\frac{-10}{}$ $\frac{0.1}{}$ $\frac{-5}{}$ $\frac{1}{}$ $\frac{2}{}$ $\frac{-10}{}$ $\frac{1.5}{}$ $\frac{12}{}$ $\frac{-5}{}$ $\frac{2}{}$



$\frac{-5}{}$ $\frac{2.5}{}$ $\frac{12}{}$ $\frac{-5}{}$ $\frac{\text{All}}{\text{Real}} \frac{2}{\text{Numbers}}$ $\frac{-6}{}$ $\frac{5}{}$



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| <p>1. $k =$ _____</p> <p>Put X in the blanks with this answer.</p> | $\frac{1}{2}(4k - 12) = \frac{3}{4}(4k - 10)$ |
| <p>2. $b =$ _____</p> <p>Put A in the blanks with this answer.</p> | $-5b - 10 = -2b + 5$ |
| <p>3. $y =$ _____</p> <p>Put B in the blanks with this answer.</p> | $12(2y + 11) = 12(2y + 12)$ |

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| <p>4. $x =$ _____</p> <p>Put S in the blanks with this answer.</p> | $9.2 - 1.7x = 2.3x + 1.2$ |
| <p>5. $a =$ _____</p> <p>Put 1 in the blanks with this answer.</p> | $3a = 5(a + 3) - 3$ |
| <p>6. $k =$ _____</p> <p>Put E in the blanks with this answer.</p> | $\frac{5k}{2} = 3k + 5$ |
| <p>7. $b =$ _____</p> <p>Put W in the blanks with this answer.</p> | $\frac{b + 6}{b - 3} = 2$ |
| <p>8. $z =$ _____</p> <p>Put Y in the blanks with this answer.</p> | $4(z + 3) - 4 = 8 \left(\frac{1}{2} z + 1 \right)$ |

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| <p>9. $d = \underline{\hspace{2cm}}$</p> <p>Put C in the blanks with this answer.</p> | $-4(2d - 3) = 2d + 11$ |
| <p>10. $m = \underline{\hspace{2cm}}$</p> <p>Put O in the blanks with this answer.</p> | $2(m - 7) + 3(m - 1) = m + 3$ |
| <p>11. $c = \underline{\hspace{2cm}}$</p> <p>Put U in the blanks with this answer.</p> | $\frac{1}{3}(9c - 18 - 3c) = \frac{1}{4}(12c - 28)$ |
| <p>12. $x = \underline{\hspace{2cm}}$</p> <p>Put L in the blanks with this answer.</p> | $\frac{3x}{5} = x - 1$ |