

SOLVING MULTI-STEP EQUATIONS

Riddle Worksheet

WHY DIDN'T THE ROMANS FIND ALGEBRA CHALLENGING?

B **E** **C** **A** **U** **S** **E**
No -10 0.1 -5 1 2 -10
Solution

X **W** **A** **S**
1.5 12 -5 2

A **L** **W** **A** **Y** **S** **1** **0.**
-5 2.5 12 -5 All 2 -6 5
Real
Numbers



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Solving Multi-Step Equations Riddle Worksheet

WHY DIDN'T THE ROMANS FIND ALGEBRA CHALLENGING?

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



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



<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>	$12(2y + 11) = 12(2y + 12)$

<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>	$4(z + 3) - 4 = 8 \left(\frac{1}{2} z + 1 \right)$

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

Solving Multi-Step Equations Riddle Worksheet

WHY DIDN'T THE ROMANS FIND ALGEBRA CHALLENGING?

B **E** **C** **A** **U** **S** **E** **X** **W** **A** **S**
 No -10 0.1 -5 1 2 -10 1.5 12 -5 2
 Solution

A **L** **W** **A** **Y** **S** **1** **0.**
 -5 2.5 12 -5 All 2 -6 5
 Real
 Numbers



<p>1. $k = \underline{1.5}$</p> <p>Put X in the blanks with this answer.</p>	$\frac{1}{2}(4k - 12) = \frac{3}{4}(4k - 10)$
<p>2. $b = \underline{-5}$</p> <p>Put A in the blanks with this answer.</p>	$-5b - 10 = -2b + 5$
<p>3. $y = \underline{\text{No Solution}}$</p> <p>Put B in the blanks with this answer.</p>	$12(2y + 11) = 12(2y + 12)$

<p>4. $x = \underline{\quad 2 \quad}$</p> <p>Put S in the blanks with this answer.</p>	$9.2 - 1.7x = 2.3x + 1.2$
<p>5. $a = \underline{\quad -6 \quad}$</p> <p>Put 1 in the blanks with this answer.</p>	$3a = 5(a + 3) - 3$
<p>6. $k = \underline{\quad -10 \quad}$</p> <p>Put E in the blanks with this answer.</p>	$\frac{5k}{2} = 3k + 5$
<p>7. $b = \underline{\quad 12 \quad}$</p> <p>Put W in the blanks with this answer.</p>	$\frac{b + 6}{b - 3} = 2$
<p>8. $z = \underline{\text{All Real Numbers}}$</p> <p>Put Y in the blanks with this answer.</p>	$4(z + 3) - 4 = 8 \left(\frac{1}{2} z + 1 \right)$

<p>9. $d = \underline{0.1}$</p> <p>Put C in the blanks with this answer.</p>	$-4(2d - 3) = 2d + 11$
<p>10. $m = \underline{5}$</p> <p>Put O in the blanks with this answer.</p>	$2(m - 7) + 3(m - 1) = m + 3$
<p>11. $c = \underline{1}$</p> <p>Put U in the blanks with this answer.</p>	$\frac{1}{3}(9c - 18 - 3c) = \frac{1}{4}(12c - 28)$
<p>12. $x = \underline{2.5}$</p> <p>Put L in the blanks with this answer.</p>	$\frac{3x}{5} = x - 1$

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