MATH MONKS

Linear Equation in One Variable Worksheet

Solve the given equations to find the unknown variable

1. $12 - x = 7$

2. $9 + 6x = 3x + 13$

3. $10x + 3 + 10x = 13x - 3$

4. $0.25(60) + 0.10x = 0.15(60 + x)$

5. $3 = 4(x - 2) + 5 - 4x$

6. $\dfrac{5y}{9} - 3 = 6$

7. $\dfrac{n}{10} = 9 - \dfrac{n}{4}$

8. $21.1w + 4.6 = 10.9w$

9. $-5(3 - 4x) = -6 + 20x$

10. $9.2z - 4.3 = 50.8$

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Answers

① $12 - x = 7$

$x = 5$

② $9 + 6x = 3x + 13$

$x = \dfrac{4}{3}$

③ $10x + 3 + 10x = 13x - 3$

$x = -\dfrac{4}{3}$

④ $0.25(60) + 0.10x = 0.15(60 + x)$

$x = 120$

⑤ $3 = 4(x - 2) + 5 - 4x$

No Solution

⑥ $\dfrac{5y}{9} - 3 = 6$

$y = \dfrac{81}{5}$

⑦ $\dfrac{n}{10} = 9 - \dfrac{n}{4}$

$n = \dfrac{180}{5}$

⑧ $21.1w + 4.6 = 10.9w$

$w = -\dfrac{23}{51}$

⑨ $-5(3 - 4x) = -6 + 20x$

No Solution

⑩ $9.2z - 4.3 = 50.8$

$z = \dfrac{551}{92}$