

Name: \_\_\_\_\_

# Solving Multi-Step Equations Worksheet

Solve each equation

①  $-14 - 6b + 7 - 2b = 1 + 5b$

②  $-10 + x + 12 - 4 = 8x - 4$

③  $-8n - 20 = -4n + 4(1 - 2n)$

④  $34 + 8k = 6(k + 4)$

⑤  $-31 - 4x = -5 - 5(1 + 5x)$

⑥  $10(4 + 4n) = 8(n + 8)$

⑦  $4(a - 4) = -5a - (6 + 2a)$

⑧  $3 - (5v + 3) = -3(1 + 2v)$

⑨  $-6y + 7(1 - y) = -4(y - 4)$

⑩  $9(3b - 1) = 3 - b$

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## Answers

①  $-14 - 6b + 7 - 2b = 1 + 5b$

$$b = -\frac{8}{13}$$

②  $-10 + x + 12 - 4 = 8x - 4$

$$x = \frac{2}{7}$$

③  $-8n - 20 = -4n + 4(1 - 2n)$

$$n = 6$$

④  $34 + 8k = 6(k + 4)$

$$k = -5$$

⑤  $-31 - 4x = -5 - 5(1 + 5x)$

$$x = 1$$

⑥  $10(4 + 4n) = 8(n + 8)$

$$n = \frac{3}{4}$$

⑦  $4(a - 4) = -5a - (6 + 2a)$

$$a = \frac{10}{11}$$

⑧  $3 - (5v + 3) = -3(1 + 2v)$

$$v = -3$$

⑨  $-6y + 7(1 - y) = -4(y - 4)$

$$y = -1$$

⑩  $9(3b - 1) = 3 - b$

$$b = \frac{3}{7}$$