Name : _____

Score : _____ Date : _____

MATH MONKS

Inequalities Worksheet

Solve the following inequalities.

① $6 - b < 8 - 4b$

② $4(x + \frac{1}{2}) - 2(x + \frac{3}{2}) \leq 5$

③ $-1 < x + 2 < 5$

④ $3(y + 5) \leq 2(y + 1)$

⑤ $-5(u - 19) \leq -6 + 2u$

⑥ $3 - 2(n - 4) > -1$

⑦ $4r + 3 > 2r + 11$

⑧ $(x - 5)(x - 2) \leq 0$

⑨ $x^2 + 7x + 10 < 10$

⑩ $\frac{x^2 + 6}{2} \geq 53$

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Inequalities Worksheet

Answers

① $6 - b < 8 - 4b$

$b < \frac{2}{3}$

② $4(x + \frac{1}{2}) - 2(x + \frac{3}{2}) \leq 5$

$x \leq 3$

③ $-1 < x + 2 < 5$

$-3 < x < 3$

④ $3(y + 5) \leq 2(y + 1)$

$y \leq -13$

⑤ $-5(u - 19) \leq -6 + 2u$

$u \geq \frac{101}{7}$

⑥ $3 - 2(n - 4) > -1$

$n < 6$

⑦ $4r + 3 > 2r + 11$

$r > 4$

⑧ $(x - 5)(x - 2) \leq 0$

$2 \leq x \leq 5$

⑨ $x^2 + 7x + 10 < 10$

$-7 \leq x \leq 0$

⑩ $\frac{x^2 + 6}{2} \geq 53$

$x \leq -10$ or $x \geq 10$