Name : _____

Score : _____ Date : _____

MATH MONKS

Multi-Step Inequalities with Fractions

Solve and graph the solution.

① $\frac{3}{5}(2d - 5) \leq 4(7 - \frac{1}{5}d)$

② $\frac{6d}{5} - 3 + 3 \leq 28 - \frac{4d}{5} + 3$

③ $\frac{2x - 3}{4} + 9 \geq 3 + \frac{4x}{3}$

④ $\frac{3x + 1}{x - 1} - 2 \geq 0$

⑤ $2(\frac{2x + 2}{4} - \frac{3x - 3}{6}) < 2x - 4$

⑥ $-9 > -\frac{1}{3}x + 6$

⑦ $\frac{3x + 4}{3} - \frac{15x}{3} < 6$

⑧ $\frac{3}{5}x - 3 \geq \frac{3}{10}x - 9$

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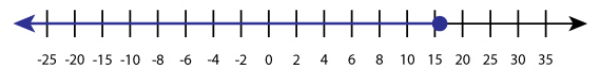
Answers

① $\frac{3}{5}(2d - 5) \leq 4(7 - \frac{1}{5}d)$

$d \leq \frac{31}{2}$

② $\frac{6d}{5} - 3 + 3 \leq 28 - \frac{4d}{5} + 3$

$d \leq \frac{31}{2}$

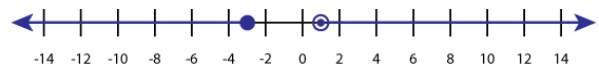


③ $\frac{2x - 3}{4} + 9 \geq 3 + \frac{4x}{3}$

$x \leq \frac{63}{10}$

④ $\frac{3x + 1}{x - 1} - 2 \geq 0$

$x \leq -3$ or $x > 1$

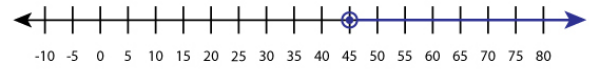


⑤ $2(\frac{2x + 2}{4} - \frac{3x - 3}{6}) < 2x - 4$

$x > 3$

⑥ $-9 > -\frac{1}{3}x + 6$

$x > 45$



⑦ $\frac{3x + 4}{3} - \frac{15x}{3} < 6$

$x > -\frac{7}{6}$

⑧ $\frac{3}{5}x - 3 \geq \frac{3}{10}x - 9$

$x \geq -20$