

STANDARD II: The student will be able to solve equations and inequalities.

OBJECTIVE

4. Solve multi-step inequalities of first degree.

ELIGIBLE CONTENT

- A negative coefficient may be used.

SAMPLE ITEMS

1 Solve: $3k - 7(k + 5) - 5 < 0$

- A $k < -10$
- B $k > -10$
- C $k < 0$
- D $k > 0$

2 Solve: $\frac{2}{3}x \geq -4$

- A $x \geq -\frac{8}{3}$
- B $x \leq -\frac{8}{3}$
- C $x \geq -6$
- D $x \leq -6$

3 Solve: $3x + 5 < x - 3$

- A $x < -4$
- B $x > -4$
- C $x < 1$
- D $x > 1$

4 Solve: $4(x - 2) \geq -2(3 - 3x)$

- A $x \geq -1$
- B $x \leq -1$
- C $x \geq 1$
- D $x \leq 1$

TIP: Use the GRI

Golden Rule of Inequalities *

Whatever you do to one side, do to the other...
PLUS, if YOU multiply or divide BY A
NEGATIVE, "flip" the inequality symbol.

* inequalities: $<, >, \leq, \geq$