

This book has permission to use the "N&K method of COLORS".

11) Question: For the given inequality $10x - 5 \geq 8x - 7$
which of the following choices is NOT the correct solution.

- A) -2
- B) -1
- C) 0
- D) 1

nc,ie

For speed, while solving something similar, only THINK the words in blue; WRITE only the words in other COLORS.

Solution:

Given: 1) $10x - 5 \geq 8x - 7$

Solve: Find the correct range that satisfies the above inequality.
Find the choice that does NOT satisfy the above inequality. That is our correct answer.

Road Map of Solution:

First Step: Solve the inequality.

Second Step: Find the correct range that satisfies the above inequality.

Third Step: Find the choice that does NOT satisfy the above inequality. That is our correct answer.

$$10x - 5 \geq 8x - 7$$

insert explanation; via tooltip?

$$\Rightarrow \{ 10x - 5 \} - 8x \geq \{ 8x - 7 \} - 8x$$

$$\Rightarrow 10x - 5 - 8x \geq 8x - 7 - 8x$$

$$\Rightarrow 2x - 5 \geq -7$$

insert explanation

$$\Rightarrow \{ 2x - 5 \} + 5 \geq \{ -7 \} + 5$$

$$\Rightarrow 2x - 5 + 5 \geq -7 + 5$$

$$\Rightarrow 2x \geq -2$$

insert explanation

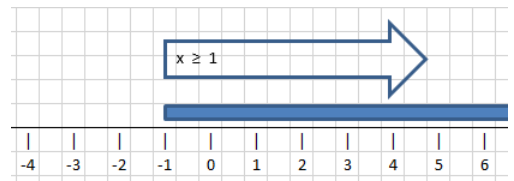
$$\Rightarrow \{ 2x \} \times \left(\frac{1}{2}\right) \geq \{ -2 \} \times \left(\frac{1}{2}\right)$$

$$\Rightarrow 2x \times \left(\frac{1}{2}\right) \geq -2 \times \left(\frac{1}{2}\right)$$

$$\Rightarrow 1x \times \left(\frac{1}{1}\right) \geq -1 \times \left(\frac{1}{1}\right)$$

$$\Rightarrow x \times (1) \geq -1 \times (1)$$

$$\Rightarrow x \geq -1 \dots\dots\dots \#1$$



i.e. "x" can be equal to or greater than -1
i.e. "x" can have the values, -1, -0.5, 0, 1, 1.1, 1.2, 1.5, 1.9, 2, and so on ...

i.e. of the choices give at the top of the page,
"x" can NOT have the value, -2 Answer(A)