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

8) Question: For what value of x is $|x-5|+5=4$?
A) -4
B) 4
C) -1
D) The expression $|x-5|+5$ can never be equal to 4.

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

Solution:
Before proceeding further, please click here to read the given examples, on Absolute Values on page 97.

Given: 1) $|x-5|+5$
Solve: For what value of x is $|x-5|+5 = 4$?

Road Map of Solution:
First Step: |any number positive or negative| = positive value of the number
Second Step: Therefore, $|\text{any number}| \geq 0$
Third Step: Therefore, $|x-5| \geq 0$

Fourth Step: Therefore, $|x-5|+5 \geq 5$ Answer (D)