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

10) Question: The equation below represents a line on the xy coordinate plane. 2y = 10x+ 6 For which value of "x" would "y" be equal to "29"? A) 5/26 B) 5/16 C) 16/5 D) 26/5 nc
For speed, while solving something similar, only THINK the words in blue; WRITE only the words in other COLORS.

Given: 1) The equation of a line on the xy-coordinate plane. Solve: For which value of "x" would "y" be equal to "29"? 2y = 10x + 6

Road Map of Solution: First Step: Start with the original equation. Second Step: Rewrite the above equation, such that we have only "x" on one side of the equation. Third Step: Substitute "y = 29" in that equation and solve tofind the value of "x".

First Step: Start with the original equation

2y = 10x + 6

Second Step: Rewrite the above equation such that we end up with only "x" one side of the equation.

[2y] <mark>-6</mark>	= [10x+6] <mark>-6</mark>
2y - 6	=	10x+ 6 - 6
2y - 6	=	10x
$\begin{bmatrix} 2y & -6 \end{bmatrix} \times \left(\frac{1}{10}\right)$	= [10x/ $\times \left(\frac{1}{10}\right)$
$\begin{bmatrix} 2y & -6 \end{bmatrix} \times \left(\frac{1}{10}\right)$	= [$\frac{10}{10}$ x $\left(\frac{1}{10}\right)$
$\frac{[2y -6] \times (1)}{10}$	= [$\frac{1}{1}$ x $\left(\frac{1}{4}\right)$
[2y - 6] 10	= [1 x] ×(1)
$\frac{[2y - 6]}{10}$	=	Х
$\frac{[2(y) - 6]}{10}$	=	х

Third Step: Substitute "y = 29" in that equation and solve tofind the value of "x".

$\frac{[2(29)-6]}{10}$	=	=	X
$\frac{[58 - 6]}{10}$	=	=	x
[<u>52</u>] 10	=	=	x
$\frac{52}{10}$	=	x	
26 5	=	х	Answer(D)