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

- 2) Question: If "p = cq", where "c" is a constant. If "p = 36" when "q = 12", what is the value of "p", when "q = 10".
- A) 10 changed
- B) 20
- *C*) 30
- D) 40

nc

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

## Solution:

Given

- 1) p = cq
- 2) p = 36 when "q = 12"
- 3) What is the value of "p", when "q = 10". Find/Solve

## *Road Map of Solution:*

First: Substitute the know values of "p" and "q" (given  $2^{nd}$  statement) in the given equation (given  $1^{st}$  statement) to find the value of the constant "c".

Second: Now that you know the value of constant "c", substitute "c" and "q" (from given  $3^{rd}$  statement) in the given equation (given  $1^{st}$  statement) to find the value of "p".

$$p = cx q \qquad equation # 1$$

$$p = c \times q$$

$$36 = c \times 12$$

$$\{ 36\} \times \left(\frac{1}{12}\right) = \{c \times 12\} \times \left(\frac{1}{12}\right)$$

$$\{ 36\} \times \left(\frac{1}{1}\right) = \{c \times 12\} \times \left(\frac{1}{12}\right)$$

$$\{ 3\} \times \left(\frac{1}{1}\right) = \{c \times 1\} \times \left(\frac{1}{1}\right)$$

$$\{ 3\} \times (1) = \{c \times 1\} \times (1)$$

$$3 = c \qquad equation # 1b$$

$$p = cq \qquad equation # 1$$

$$p = 3 \times q$$

$$p = 3 \times 10$$

$$p = 30 \qquad Answer (C)$$