Sample Question # 2 & Solution: *Six percent of all the guests at a birthday party were dresses as clowns. If there were 9 people dressed as clowns at the party, what was the total number of guests at the birthday party? How to THINK the solution?*

A) 50
B) 100
C) 150
D) 200

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For speed, while solving something similar, only THINK the words in blue; WRITE only the words in other COLORS.
If you want to understand how to get the most out of this unique book,
please compare & contrast the following pages;
(How to THINK the solution; current page) and
(What to WRITE to get the answer; on page 8; next page click here)

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Solution:
Road Map of Solution:
Given 1) Six percent of all guests at a birthday party were dressed as clowns.
2) There were 9 people dressed as clowns at the party.
Solve/Find How many guests were at the party?

Based on the Given Statements (1) & (2), we can see that,
Six percent of all guests at the party were dressed as clowns = There were 9 people dressed as clowns at the party
*6 % * all guests at the party = 9*
To convert "x%" to "a fraction", we will write, "x times $\frac{1}{100}$"

$6 * \left(\frac{1}{100}\right) *$ *all guests at the party* $= 9$

Replacing "all guests at the party" with "x"

$\left(\frac{6*1}{100}\right) * x = 9$

$\left(\frac{6}{100}\right) * x = 9$ ..... *equation # 1*

Now, we need to solve for "x".
i.e. we need to find the value of "x".
for that we need to isolate the variable "x", to one side of the equation.
That can be achieved, if we multiply $\left(\frac{100}{6}\right)$ to both sides of eq #1
Doing the same thing to both sides of an equation simultaneously, does NOT change the equation.
It only changes the LOOK of the equation.

$\{\left(\frac{6}{100}\right) * x\} * \left(\frac{100}{6}\right) = \{9\} * \left(\frac{100}{6}\right)$

$\left(\frac{6}{100}\right) * x * \left(\frac{100}{6}\right) = 9 * \left(\frac{100}{6}\right)$

$\left(\frac{1}{1}\right) * x * \left(\frac{1}{1}\right) = \left(\frac{9 * 100}{6}\right)$

$(1) * x * (1) = \left(\frac{900}{6}\right)$

$x = \left(\frac{150}{1}\right)$

all guests at the party $= (150)$ ..... *Answer (C)*

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Solution:

$6 * \left(\frac{1}{100}\right) * \text{all guests at the party} = 9$

$\left(\frac{6*1}{100}\right) * x = 9$

$\left(\frac{6}{100}\right) * x = 9$ ..... *equation # 1*

$\{\left(\frac{6}{100}\right) * x\} * \left(\frac{100}{6}\right) = \{9\} * \left(\frac{100}{6}\right)$

$x = \left(\frac{150}{1}\right)$

all guests at the party $= (150)$ ..... *Answer (C)*