## Answer on Question \#43699, Math, Algebra

There are some benches in a classroom If 5students sit on each bench three benches are left vacant and if 3 students sit on each bench 5 are left standing. What is the total number of students in the class?

## Solution.

Quantity of students $S$ satisfies two equalities

$$
\left\{\begin{array}{c}
S=5(x-3) \\
S=3 X+5
\end{array}\right.
$$

where $X$ is benches quantity.
From second equation we have
$\mathrm{X}=(S-5) / 3$.
Put it into the first equation we obtain

$$
S=5\left(\frac{S-5}{3}-3\right) .
$$

Then the solution will be equal 35 .
Answer. S = 35.

