

Math Writing - Fraction

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Q. What fraction participate sport

f_1 300 students total f_2 56 play lacross
 f_3 94 play tennis f_4 two sports

$$\begin{array}{r} 56 \\ + 94 \\ \hline 150 \end{array}$$

add 56 lacross | plus
94 tennis to get
total players in sport

$$\frac{150}{300}$$

arrange fraction of players
with total students in
denominator and players
in numerator

$$\frac{150}{300} \div \frac{10}{10} = \frac{15}{30}$$

divide by 10/10 to start
simplifying

$$\frac{15}{30} \div \frac{15}{15} = \frac{1}{2}$$

divided by 15/15 to simplify
more

$$\boxed{\frac{1}{2}}$$

final fraction of players is $\frac{1}{2}$

I needed to find out what fraction of students at the school played a sport. I started by adding the 56 lacrosse and 94 tennis players. I got a total of 150 players. Then I put the numbers in fraction form: $\frac{\text{players}}{\text{students}} = \frac{150}{300}$ to start finding how many players compared to students. I then started to simplify the fraction by dividing by $\frac{10}{10}$ because I noticed the zeros on the ends. I ended up with $\frac{15}{30}$. I divided again by $\frac{15}{15}$ because I saw that 15 goes into 30 - so 15 is a factor of both. I finally got $\frac{1}{2}$ which can't be simplified any more. So the answer is that $\frac{1}{2}$ of the students play a sport.