

**Answer on question 39535 – Math – Abstract Algebra**

Sophia asked the students in her class to name their favorite sport. She made this list to display the results,  $\frac{1}{3}$  of the students names basketball,  $\frac{1}{8}$  of the students named soccer,  $\frac{5}{12}$  of the students named football. The rest of the students in te class named baseball. What fraction of the students in the class named baseball as their favorite sport?

**Solution**

The part of the students in the class named baseball is

$$1 - \frac{1}{3} - \frac{1}{8} - \frac{5}{12} = \frac{24 - 8 - 3 - 10}{24} = \frac{3}{24} = \frac{1}{8}$$

**Answer:**  $\frac{1}{8}$ .