

Answer on Question #43654 – Math - Algebra

this a fraction question. $\frac{5}{9} - \frac{7}{15}$ divided $1 - \frac{5}{9}$ multiply $\frac{7}{15}$

Solution

$$\begin{aligned} \left(\frac{5}{9} - \frac{7}{15}\right) : \left(1 - \frac{5}{9}\right) \times \frac{7}{15} &= \left(\frac{5}{3 \times 3} - \frac{7}{5 \times 3}\right) : \left(1 - \frac{5}{9}\right) \times \frac{7}{15} = \frac{1}{3} \left(\frac{5}{3} - \frac{7}{5}\right) : \frac{4}{9} \times \frac{7}{15} = \frac{1}{3} \times \frac{5 \times 5 - 3 \times 7}{3 \times 5} : \frac{4}{9} \times \frac{7}{15} = \\ &= \frac{1}{3} \times \frac{4}{3 \times 5} \times \frac{9}{4} \times \frac{7}{15} = \frac{4 \times 9 \times 7}{3 \times 3 \times 5 \times 4 \times 15} = \frac{4 \times 7}{5 \times 4 \times 15} = \frac{7}{5 \times 15} = \frac{7}{75} = 0.09(3) \end{aligned}$$