Answer on Question #45612 – Math – Algebra

Question. What is product of $6\frac{2}{3} \times \frac{9}{40}$.

Solution. To multiply these fraction we should make improper the first fraction $6\frac{2}{3}$:

$$6\frac{2}{3} = \frac{6 \cdot 3 + 2}{3} = \frac{18 + 2}{3} = \frac{20}{3}.$$

Therefore

$$6\frac{2}{3} \times \frac{9}{40} = \frac{20}{3} \times \frac{9}{40} = \frac{20 \cdot 9}{3 \cdot 40} = \frac{20 \cdot 3 \cdot 3}{3 \cdot 20 \cdot 2} = \frac{20 \cdot 3 \cdot 3}{3 \cdot 20 \cdot 2} = \frac{3}{2}$$

Answer. $\frac{3}{2}$.