Multiplying Fractions.

To multiply fractions:

1) Multiply the top numbers (the numerator) → $\dfrac{3}{5} \times \dfrac{2}{3} = \dfrac{6}{15}$

2) Multiply the bottom numbers (the denominator)

3) Simplify if needed $\dfrac{6}{15} \xrightarrow{\div \text{ by } 3} = \dfrac{2}{5}$

Your turn! Solve the following problems using these rules:

1) $\dfrac{3}{4} \times \dfrac{2}{3} =$

2) $\dfrac{2}{5} \times \dfrac{1}{3} =$

3) $\dfrac{2}{4} \times \dfrac{3}{6} =$

4) $\dfrac{3}{9} \times \dfrac{2}{3} =$

5) $\dfrac{3}{8} \times \dfrac{5}{6} =$

6) $\dfrac{5}{6} \times \dfrac{4}{9} =$

7) $\dfrac{4}{5} \times \dfrac{5}{10} =$

8) $\dfrac{3}{4} \times \dfrac{8}{9} =$

9) $\dfrac{5}{12} \times \dfrac{4}{5} =$

Multiplying Fractions.

$$\frac{3}{4} \times \frac{2}{3} = \frac{6}{12} \xrightarrow{\div \text{ by } 6} = \frac{1}{2}$$

$$\frac{4}{5} \times \frac{5}{10} = \frac{20}{50} \xrightarrow{\div \text{ by } 10} = \frac{2}{5}$$

$$\frac{2}{5} \times \frac{1}{3} = \frac{2}{15}$$

$$\frac{3}{4} \times \frac{8}{9} = \frac{24}{36} \xrightarrow{\div \text{ by } 12} = \frac{2}{3}$$

$$\frac{2}{4} \times \frac{3}{6} = \frac{6}{24} \xrightarrow{\div \text{ by } 6} = \frac{1}{4}$$

$$\frac{5}{12} \times \frac{4}{5} = \frac{20}{60} \xrightarrow{\div \text{ by } 20} = \frac{1}{3}$$

$$\frac{3}{9} \times \frac{2}{3} = \frac{6}{27} = \frac{2}{9}$$

$$\frac{3}{8} \times \frac{5}{6} = \frac{15}{48} \xrightarrow{\div \text{ by } 3} = \frac{5}{16}$$

$$\frac{5}{6} \times \frac{4}{9} = \frac{20}{54} \xrightarrow{\div \text{ by } 2} = \frac{10}{27}$$