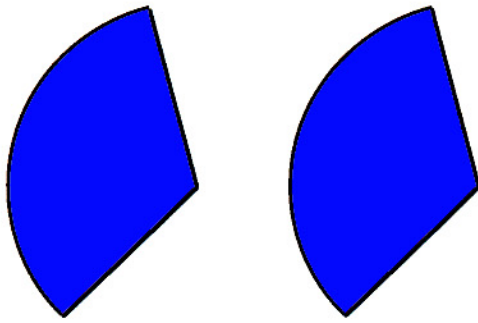


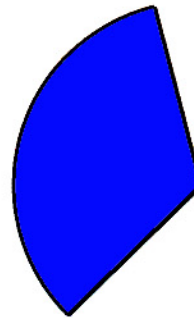
Multiplication of a fraction by a fraction

$$\frac{2}{3} \times \frac{2}{3}$$

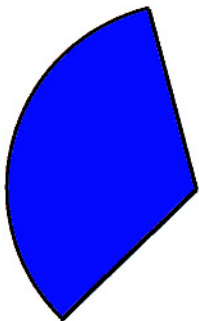


$\times \frac{2}{3}$ means

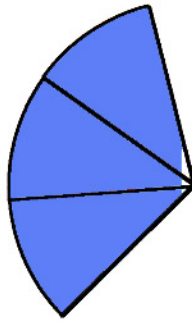
to first divide each



into three parts

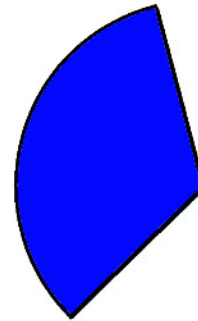


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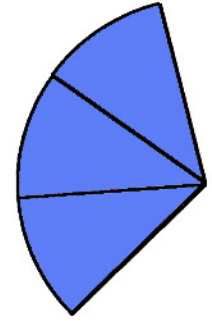


$$\frac{1}{3} =$$

$$\frac{2}{9}$$



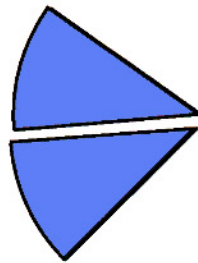
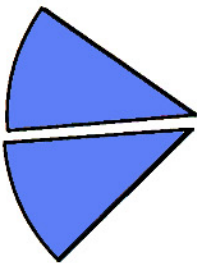
=



$$\frac{1}{3} =$$

$$\frac{2}{9}$$

then take two parts of each third.



$$\frac{2}{3} \times \frac{2}{3} = \frac{4}{9}$$

Rule: To multiply a fraction by a fraction,
multiply the numerator by the numerator
and the denominator by the denominator.