


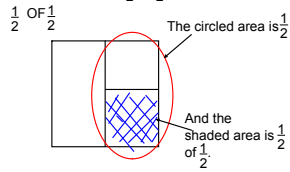
## 7. Multiplying Fractions

To understand multiplying fractions, it is important to understand multiplication.

a problem like  $3 \times 4$  can indicate 3 groups of 4, or 4 groups of 3. You can think of this as

three 4s  $4 + 4 + 4 = 12$    
or  
four 3s  $3 + 3 + 3 = 12$

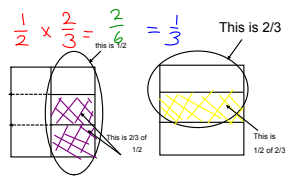
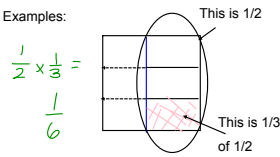
So something like  $\frac{1}{2} \times \frac{1}{2}$  can mean...



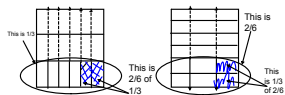
So  $\frac{1}{2}$  of  $\frac{1}{2}$  is  $\frac{1}{4}$

$$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$$

Examples:



$$\frac{2}{6} \times \frac{1}{3} = \frac{2}{18} = \frac{1}{9}$$



Homework:

- ①  $\frac{1}{2} \times \frac{1}{4} =$
- ②  $\frac{3}{4} \times \frac{1}{3} =$
- ③  $\frac{1}{5} \times \frac{1}{2} =$
- ④  $\frac{2}{4} \times \frac{1}{2} =$

Front

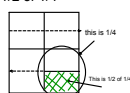


Back



$$\textcircled{1} \frac{1}{2} \times \frac{1}{4} = \frac{1}{8} = \frac{1}{8}$$

$\frac{1}{2}$  of  $\frac{1}{4}$



$\frac{1}{4}$  of  $\frac{1}{2}$

