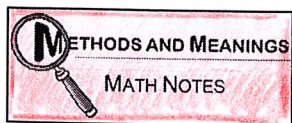


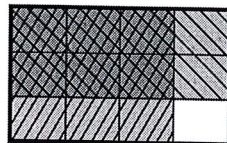
Math Notes



Multiplying Fractions

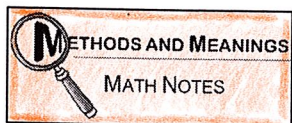
- 1) You can find the product of two fractions, such as $\frac{2}{3}$ and $\frac{3}{4}$, by multiplying the numerators (tops) of the fractions together and dividing that by the product of the denominators (bottoms).

- 2) A visual model of this problem might look like:



- 3) The solution would be:

$$\frac{2}{3} \times \frac{3}{4} = \frac{6}{12}$$



Multiplying Mixed Numbers

An efficient method for **multiplying mixed numbers** is to convert them to **improper fractions**, multiply them, and then convert them back to a mixed number, if necessary. Here are three examples:

1) $1\frac{2}{3} \cdot 2\frac{3}{4} = \frac{5}{3} \cdot \frac{11}{4} = \frac{55}{12} = 4\frac{7}{12}$

2) $1\frac{3}{5} \cdot 2\frac{2}{9} = \frac{8}{5} \cdot \frac{2}{9} = \frac{16}{45}$

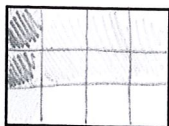
3) $2\frac{1}{3} \cdot 4\frac{1}{2} = \frac{7}{3} \cdot \frac{9}{2} = \frac{63}{6} = 10\frac{3}{6} = 10\frac{1}{2}$

Ex add
 $7\frac{3}{4} = \frac{31}{4}$
multiply

Practice!

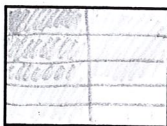
$1\frac{1}{3} = \frac{4}{3}$ $2\frac{1}{2} = \frac{5}{2}$

1) $\frac{1}{4} \times \frac{2}{3}$



$\frac{1}{4} \times \frac{2}{3} = \frac{2}{12}$

2) $\frac{1}{2} \times \frac{3}{5}$



$\frac{1}{2} \times \frac{3}{5} = \frac{3}{10}$

3) $1\frac{1}{3} \times 2\frac{1}{2}$

$\frac{4}{3} \times \frac{5}{2} = \frac{20}{6}$

$3\frac{2}{6}$