

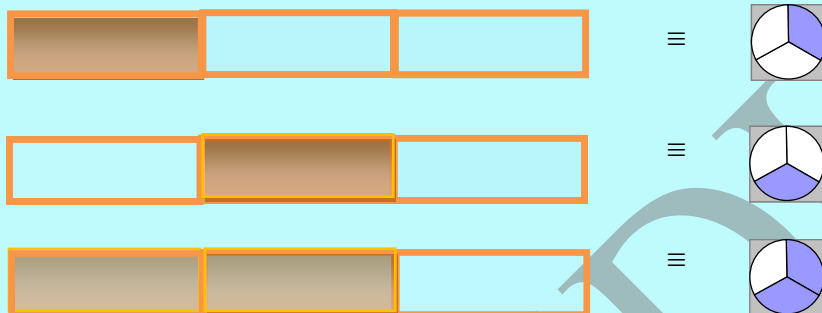
ADDING FRACTIONS

FRACTIONS WITH SAME DENOMINATOR

EXAMPLE

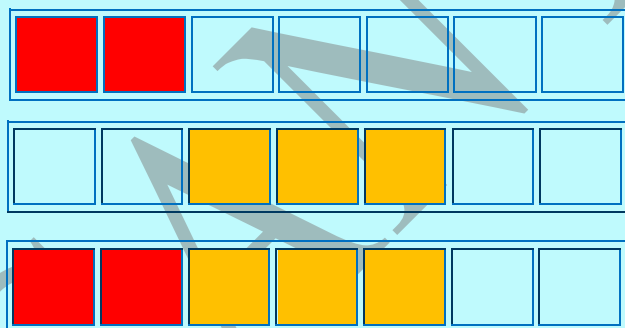
1).

$$\frac{1}{3} + \frac{1}{3} \Rightarrow \frac{1+1}{3} \Rightarrow \frac{2}{3}$$



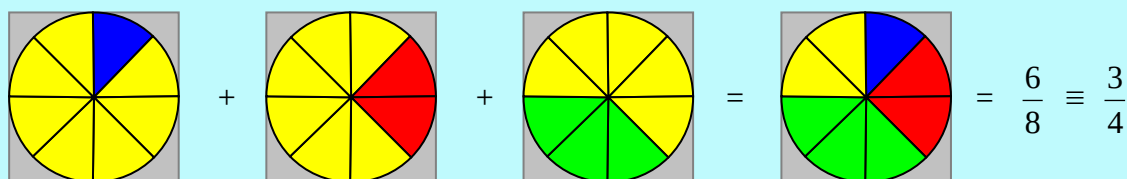
2).

$$\frac{2}{7} + \frac{3}{7} \Rightarrow \frac{2+3}{7} \Rightarrow \frac{5}{7}$$



3).

$$\frac{1}{8} + \frac{2}{8} + \frac{3}{8} = \frac{1+2+3}{8} = \frac{6}{8}$$



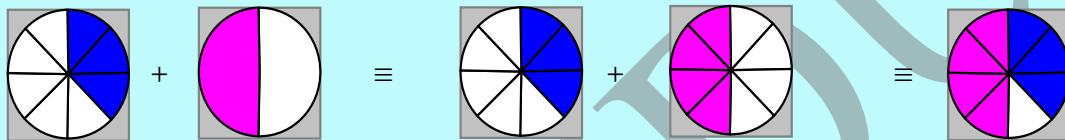
DIFFERENT DENOMINATORS

THE LARGER DENOMINATOR IS A COMMON MULTIPLE OF THE OTHER/S

EXAMPLE

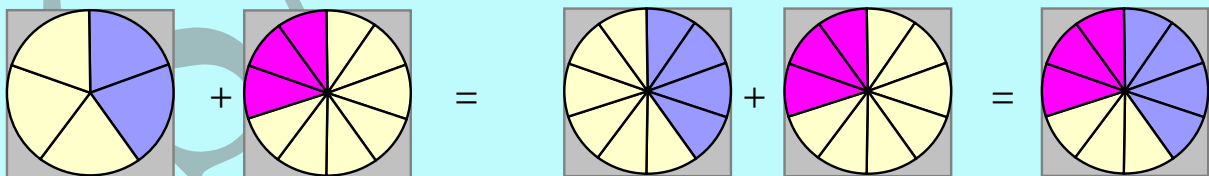
1).

$$\frac{3}{8} + \frac{1}{2} = \frac{3}{8} + \frac{4 \times 1}{4 \times 2} = \frac{3}{8} + \frac{4}{8} = \frac{3+4}{8} = \frac{7}{8}$$

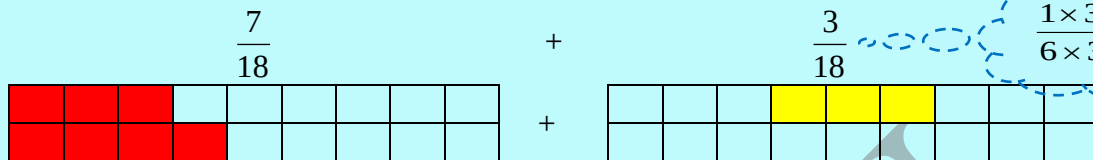
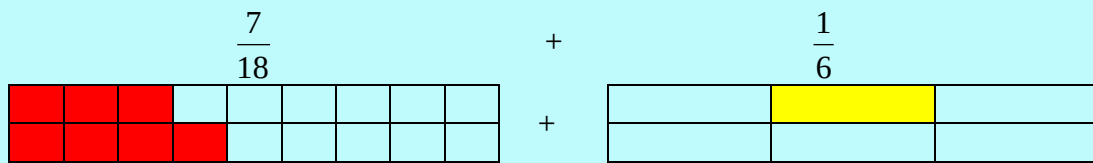


2).

$$\frac{2}{5} + \frac{3}{10} = \frac{2 \times 2}{2 \times 5} + \frac{3}{10} = \frac{4}{10} + \frac{3}{10} = \frac{4+3}{10} = \frac{7}{10}$$



3).



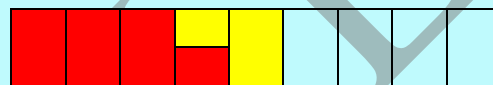
$$\frac{1 \times 3}{6 \times 3} = \frac{3}{18}$$

$$= \frac{7}{18} + \frac{3}{18} = \frac{7+3}{18} = \frac{10}{18}$$



$$= \frac{10 \div 2}{18 \div 2} = \frac{5}{9}$$

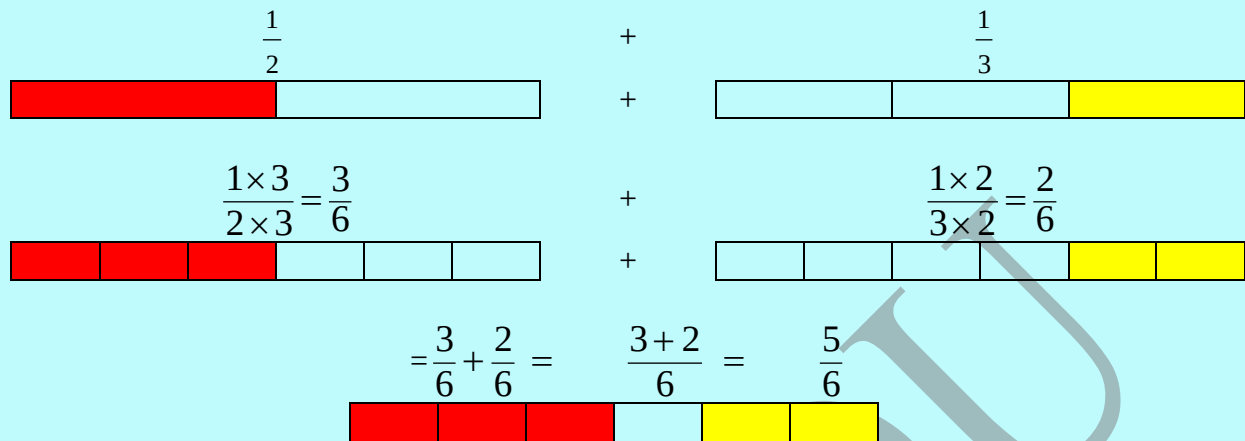
Simplify using equivalent fractions



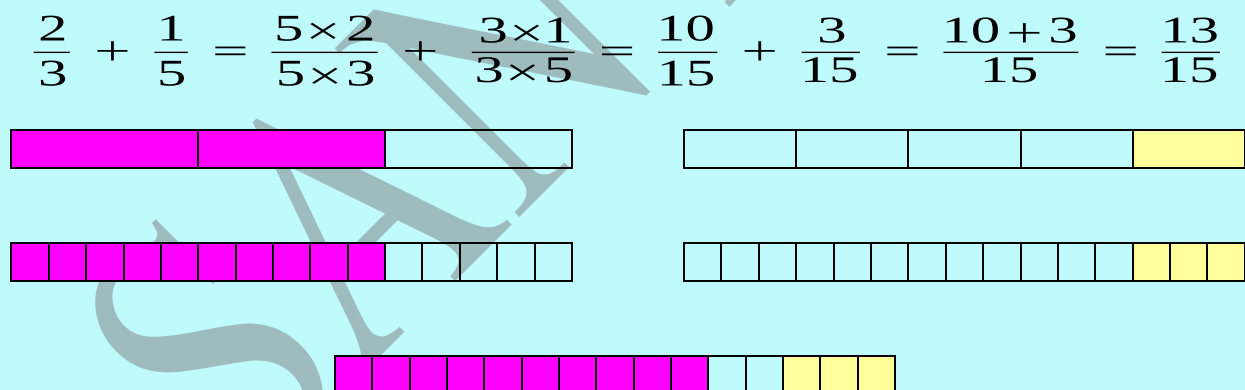
THE LARGER DENOMINATOR IS NOT A MULTIPLE OF THE OTHER/S

EXAMPLE

1).

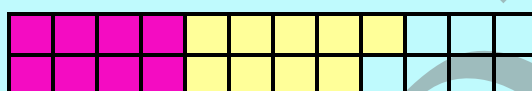
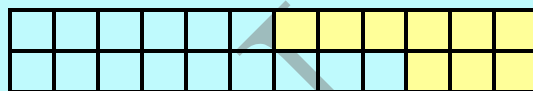
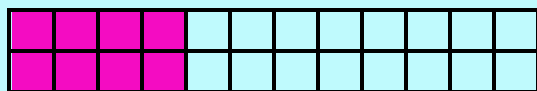
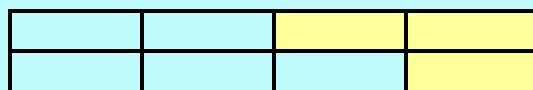
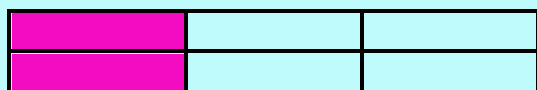


2).



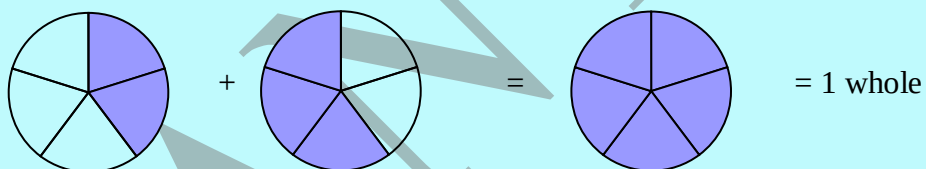
3).

$$\frac{2}{6} + \frac{3}{8} = \frac{4 \times 2}{4 \times 6} + \frac{3 \times 3}{3 \times 8} = \frac{8}{24} + \frac{9}{24} = \frac{8+9}{24} = \frac{17}{24}$$



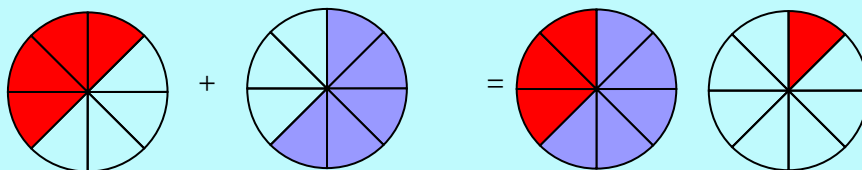
4).

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



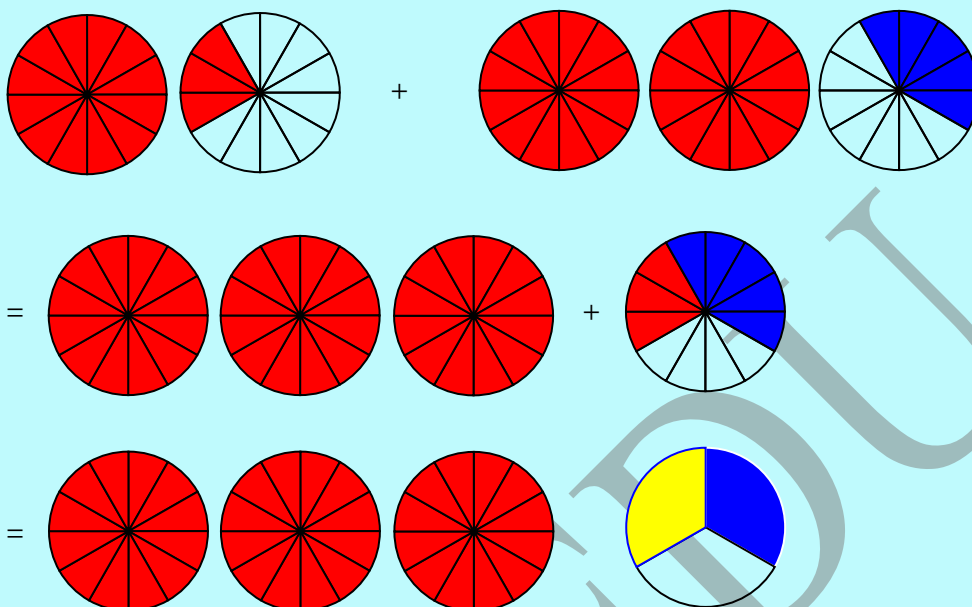
5).

$$\frac{4}{8} + \frac{5}{8} = \frac{4+5}{8} = \frac{9}{8} = \frac{8+1}{8} = \frac{8}{8} + \frac{1}{8} = 1 + \frac{1}{8} = 1\frac{1}{8}$$



6).

$$1\frac{3}{12} + 2\frac{5}{12} = 1 + 2 + \frac{3+5}{12} = 3 + \frac{8}{12} = 3 + \frac{2}{3} = 3\frac{2}{3}$$



SUMMARY

Here is the **Rule** for adding fractions:

- ✚ If needed, we have to **Change** each fraction so that the **denominators** are the same.
- ✚ Then, we add the **numerators**.
- ✚ The denominator of your answer will be the **same denominator** of the built-up fractions.
- ✚ As always we have to **reduce** or **simplify** the answer, if required.

Do Not Add denominators!

Now try the Adding [worksheet](#)