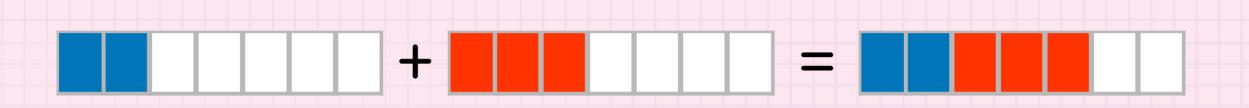
# Adding fractions

### If the fractions have the same denominator...

$$\frac{2}{7} + \frac{3}{7} = \frac{5}{7}$$
 Add the numerators. Keep the denominators the same.



## If the fractions have different denominators...

$$\frac{1}{3} + \frac{2}{5} = \frac{11}{15}$$

Convert the fractions so that they have the same denominator.

First, find the lowest common multiple of both denominators.

Multiples of 3:

3 6 9 12 15

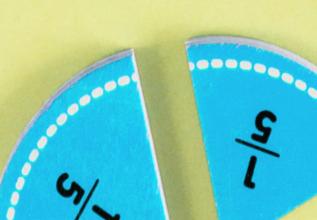
Multiples of 5:

Convert the fractions so that the denominators are both the lowest common multiple.

Add the numerators. Keep the denominators the same.

$$\frac{5}{15} + \frac{6}{15} = \frac{11}{15} + \frac{11}{15} = \frac{11}{15}$$









# Subtracting fractions

### If the fractions have the same denominator...

$$\frac{5}{7} - \frac{2}{7} = \frac{3}{7}$$

Subtract the numerators.
Keep the denominators the same.



### If the fractions have different denominators...

Convert the fractions so that they have the same denominator.

$$\frac{2}{3} - \frac{1}{4} = \frac{5}{12}$$

First, find the lowest common multiple of both denominators.

Multiples of 3: 3 6 9 12

Multiples of 4: 4 8 12

Convert the fractions so that the denominators are both the lowest common multiple.

Subtract the numerators.
Keep the denominators the same.

$$\frac{8}{12} - \frac{3}{12} = \frac{5}{12}$$

