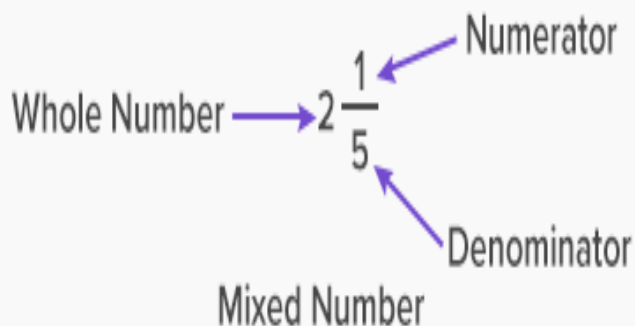


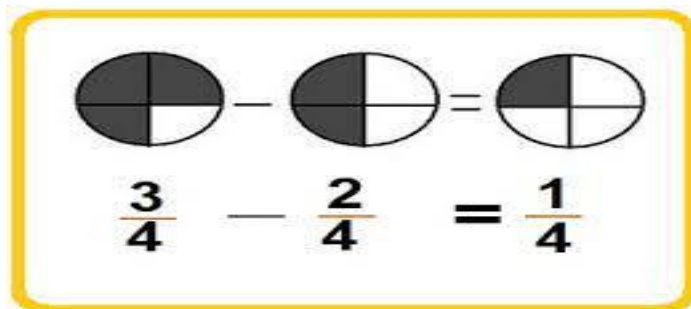
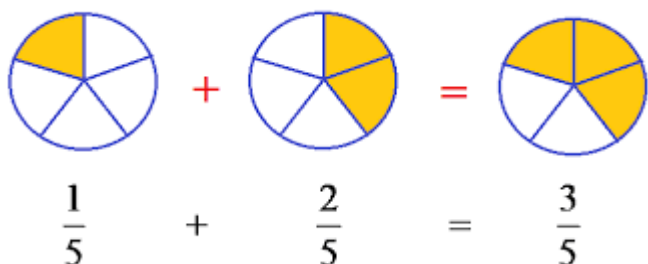
Fractions



These strawberries represent a mixed number because we have 1 whole strawberry plus $\frac{1}{2}$ of a strawberry.



To add or subtract fractions the bottom numbers (denominators) **must be the same**. You do NOT add or subtract the denominators. They stay the same, only the top changes.



$$\frac{2}{9} + \frac{5}{9} = \frac{7}{9}$$

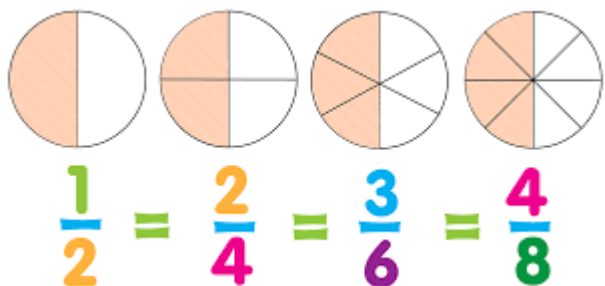
Subtract the **numerators**
Keep the same **denominator**

$$\frac{5}{8} - \frac{2}{8} = \frac{3}{8}$$

Subtracting fractions

Equivalent fractions are equal to each other.

When you multiply or divide the top (numerator) and bottom (denominator) by the **SAME** number the fraction is equivalent to the original number.

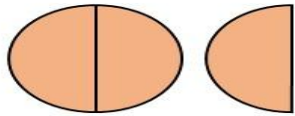


x2

x3

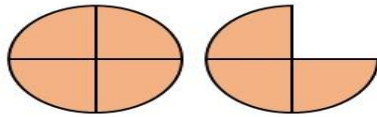
x4 Mixed Number:
an integer with a fraction

Improper Fraction:
a fraction with a numerator
larger than the denominator



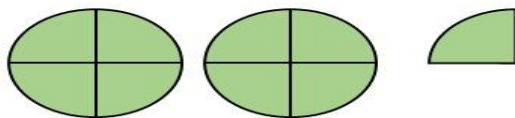
$$1\frac{1}{2}$$

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



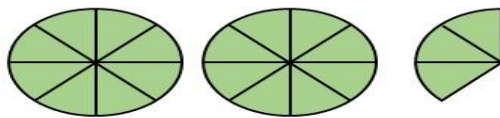
$$1\frac{3}{4}$$

$$\frac{7}{4}$$



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

$$\frac{9}{4}$$



$$2\frac{3}{8}$$

$$\frac{19}{8}$$

Mixed Number to Improper Fraction



$$2\frac{3}{4} = \frac{(4 \times 2) + 3}{4} = \frac{8 + 3}{4} = \frac{11}{4}$$

Mixed Number

Improper Fraction

Fraction, Decimals, and Percentages

	fraction	decimal	percent	word
	$\frac{1}{1}$	1	100%	one-whole
	$\frac{1}{2}$	0.50	50%	one-half
	$\frac{1}{3}$	$0.\bar{3}$	$33.\bar{3}\%$	one-third
	$\frac{1}{4}$	0.25	25%	one-fourth one-quarter
	$\frac{1}{5}$	0.2	20%	one-fifth
	$\frac{1}{6}$	$0.1\bar{6}$	$16.\bar{6}\%$	one-sixth
	$\frac{1}{8}$	0.125	12.5%	one-eighth
	$\frac{1}{10}$	0.10	10%	one-tenth
	$\frac{1}{12}$	$0.08\bar{3}$	$8.3\bar{3}\%$	one-twelfth