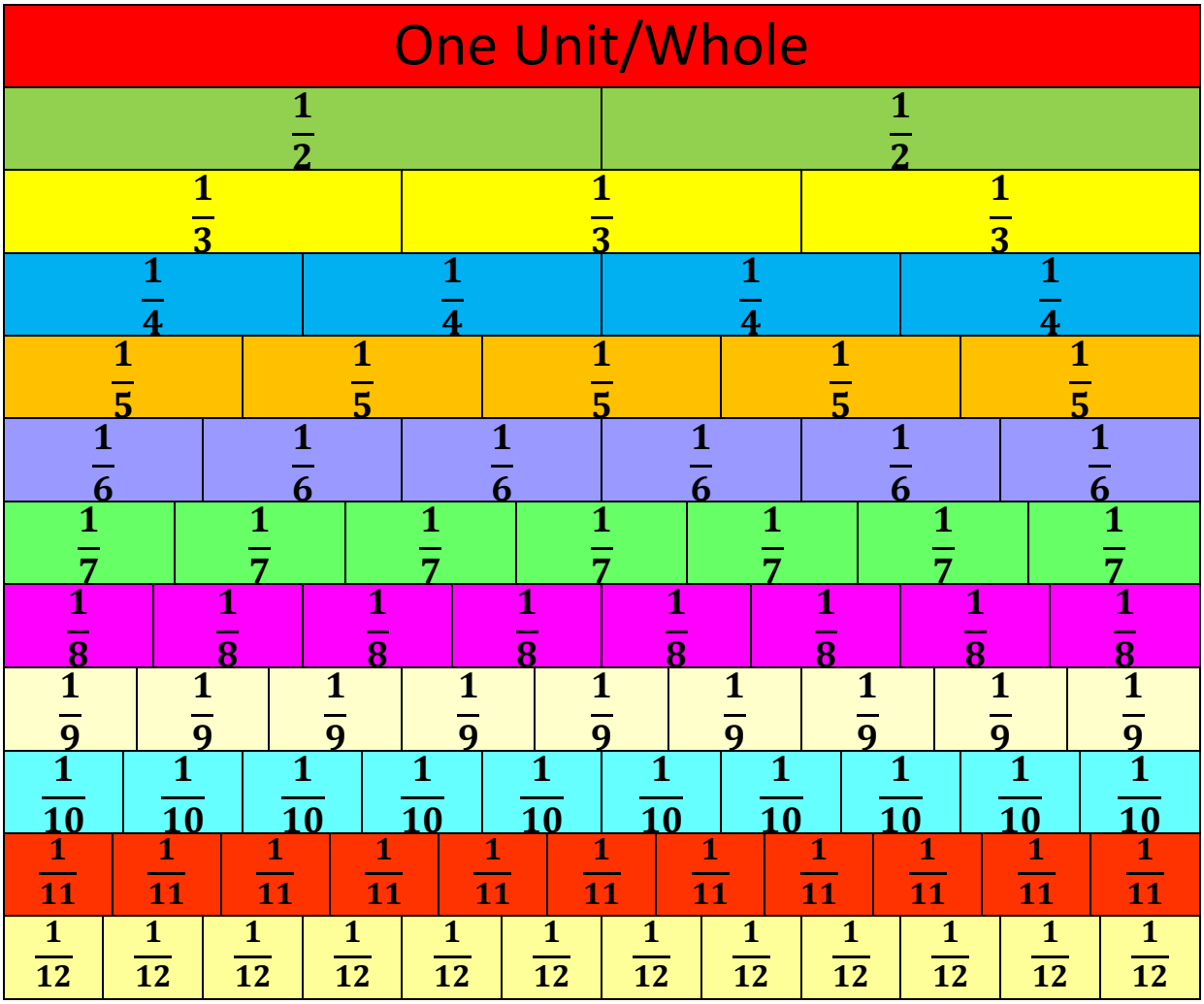
Fractions



Key Vocabulary

Fraction	Compares a part to the whole. e.g. $\frac{1}{3}$ of €9 = $(\frac{1}{3} \times \frac{9}{1}) = €3$
Numerator = 3 Denominator = 8	$\frac{3}{8}$
Equivalent Fractions	Equivalent fractions are fractions whose numerator and denominator are in the same ratio as that of the original fraction. e.g. $\frac{1}{3}$ is equivalent to $\frac{2}{6}$

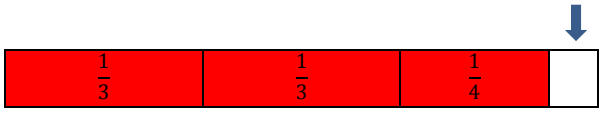
Common Approach to Fractions

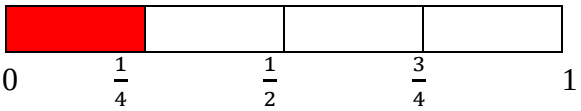
Diagram **Estimate** **Calculate**

Problem 1. If Donald ate $\frac{2}{3}$ of his own bar of chocolate and if he ate $\frac{1}{4}$ of Tim's chocolate bar. What fraction of a bar of chocolate did he eat?

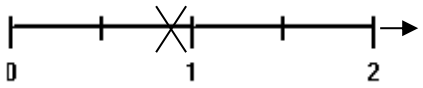
Diagram

What fraction remains?





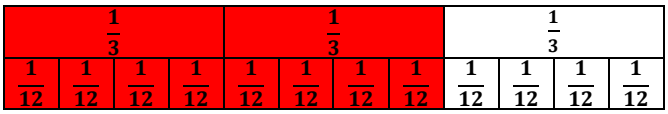
Estimate



Since the sum of $\frac{2}{3}$ and $\frac{1}{4}$ on the fraction strip above is less than one, represent the sum of the two fractions with an X on the number line.

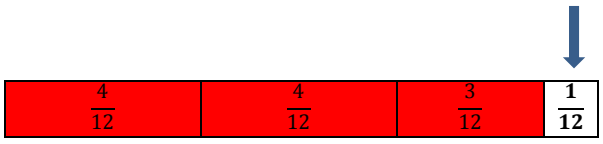
Calculate

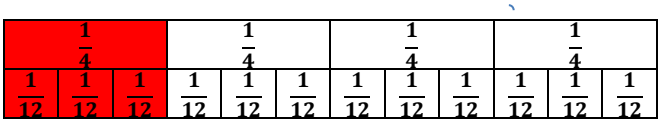
Because $\frac{2}{3}$ and $\frac{1}{4}$ have different denominators, look for the common denominator of both fractions with the help of the fraction wall, i.e. what is the **lowest common denominator** that 3 and 4 divide into? When the common denominator is found, **add like terms to like terms.**



Now, what fraction remains?

$\frac{2}{3}$ is equivalent to $\frac{8}{12}$





$\frac{1}{4}$ is equivalent to $\frac{3}{12}$

$\frac{8}{12} + \frac{3}{12} = \frac{11}{12}$ of one bar of chocolate