**Compare and Order Fractions** 

## **Types of Fractions**



**Improper fraction** 





2

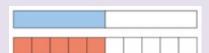
Mixed number







**Equivalent fractions** 



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

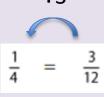
By multiplying or dividing the numerator and denominator by the same number, the new fraction will be an equivalent fraction



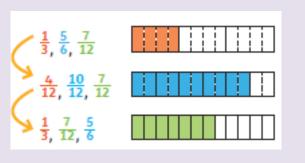




**x**5







Compare and order by using common denominators

## **Convert between improper fractions** and mixed numbers



Improper to mixed number

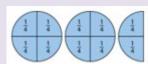
Divide the numerator by the denominator





$$7 \div 4 = 1 \text{ r } 3$$
$$\div 1 \frac{3}{4}$$

Mixed number to improper There are 4 parts in the whole



2 whole = <u>8</u>	+ <u>2</u> =	<u>10</u>
4	4	4

numerator	Top number in a fraction. Shows how many parts we have
denominator	Bottom number in a fraction. Shows how many equal parts in the whole
common denominator	When the denominators of two or more fractions are the same
multiple	The result of multiplying a number by an integer
equivalent fractions	Fractions that have the same value but look different
proper fraction	The numerator is less than the denominator – value is less than 1 whole
improper fraction	The numerator is greater than the denominator – value is greater than 1 whole
mixed number	A whole number and a fraction part

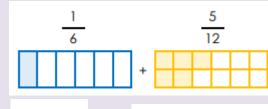
**Vocabulary** 

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### **Adding Fractions**

### **Subtracting Fractions**



$$\frac{2}{12} + \frac{5}{12} = \frac{7}{12}$$

We need to have a common denominator to be able to add and subtract

= 6

15

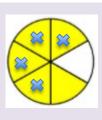
$$2 \frac{2}{15} + 4 \frac{2}{3} =$$

15

2 + 4 = 6

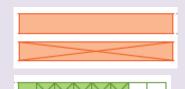
15

For mixed numbers, add the whole numbers then the fraction parts



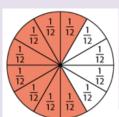
$$\frac{5}{6} - \frac{2}{3} = \frac{5}{6}$$

$$\frac{7}{12} - \frac{3}{4} = 1 \frac{7}{12} - \frac{9}{12} =$$

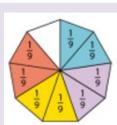


$$\frac{3}{4} - \frac{5}{8} = \frac{1}{8} = \frac{1}{8}$$

### **Multiplying Fractions by an Integer**



$$\frac{1}{12}$$
 x 8 =  $\frac{8}{12}$ 



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$$4 \times \frac{2}{9} = \frac{8}{9}$$

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

For mixed numbers, multiply the whole numbers then the fraction part

$$\frac{1}{5} \times 4 = \frac{4}{5} =$$