

MIXED NUMBERS

What Is a Mixed Number?

- A mixed number has both a whole number and a fraction. If someone ate a whole cookie and a third of another, $1 \frac{1}{3}$ would represent how many cookies were eaten. Other mixed numbers are:

$$4 \frac{2}{3} \quad 3 \frac{1}{7} \quad 1 \frac{6}{9} \quad 7 \frac{4}{5}$$

- Mixed numbers can be added, subtracted, multiplied, and divided, but there are several steps in the operations. Each operation has its own set of steps.

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- o Add the whole numbers; include any whole number resulting from adding the fractions.

$$5 \frac{2}{3} + 3 \frac{5}{9} \rightarrow 5 \frac{6}{9} + 3 \frac{5}{9}$$

$$\frac{6}{9} + \frac{5}{9} = \frac{11}{9} \rightarrow 1 \frac{2}{9}$$

$$5 + 3 + 1 \frac{2}{9} = 9 \frac{2}{9}$$

- To **subtract** mixed numbers, the **denominators must be the same.**
 - Begin by changing one or both denominators.
 - Subtract the fractions and reduce to lowest terms.
 - Subtract the whole numbers.

$$6 \frac{11}{12} - 5 \frac{3}{4} =$$

$$7 \frac{11}{12} - 5 \frac{9}{12} =$$

$$2 \frac{2}{12} = 2 \frac{1}{6}$$



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- To convert a mixed number to an improper fraction:
 - An improper fraction has a numerator larger than the denominator: **$7/3$, $8/5$, $22/15$**
 - To change a mixed number to an improper fraction, multiply the whole number by the denominator and then add the numerator to the product. The product becomes the new numerator.

Examples:

$$5 \frac{1}{2} \rightarrow 11/2$$

$$3 \frac{6}{7} \rightarrow 27/7$$

- Once the mixed numbers have been changed to improper fractions, multiply the numerators and the denominators.

$$5 \frac{1}{2} \times 3 \frac{6}{7} =$$

$$11/2 \times 27/7 = 297/14$$

- Change the improper fraction to a mixed number by dividing

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Try This!

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

$$8 \frac{7}{8} - 5 \frac{1}{3} =$$

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

$$1 \frac{7}{8}$$



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