

Lesson: Mixed numbers and Improper Fractions

SWBAT: Convert from mixed numbers to improper fractions and properly add and subtract mixed numbers

Converting mixed numbers to Improper fractions:

- Multiply the whole number by the _____
- _____ that answer to the numerator
- Put that answer on top of the _____ denominator

Ex: $3\frac{2}{5}$ - First multiply the 3 and 5 together and get 15. Next add $15 + 2$.

$\frac{17}{5}$ - Put that 17 on top of the same denominator of 5.

Convert each mixed number into an improper fraction

a. $2\frac{3}{4}$

b. $3\frac{5}{9}$

c. $1\frac{1}{4}$

Converting Improper fractions to Mixed numbers:

- Divide the numerator by the _____
- Write down the whole number answer
- Put the _____ on top of the denominator

Ex: $\frac{11}{4}$ First divide 11 by 4. You will get a whole number of 2 and
Remainder of 3. So your answer will be $2\frac{3}{4}$.

Convert the following Imp. Fractions to mixed numbers

a. $\frac{22}{6}$

b. $\frac{13}{9}$

c. $\frac{44}{7}$

Adding and Subtracting mixed numbers:

- Before you add or subtract mixed numbers, turn them into _____!!!
- Do not just add or subtract the whole numbers and then the fractions.

Ex:

$$3\frac{1}{2} - 2\frac{2}{3} = \frac{7}{2} - \frac{8}{3}$$

$$\frac{21}{6} - \frac{16}{6} = \frac{5}{6}$$

Once you convert them into imp. Fractions, you
Just add/subtract like normal. If you get an Imp.
Fraction as an answer, turn it back to a mixed #.

a. $1\frac{5}{12} + 3\frac{1}{3}$

b. $3\frac{1}{4} - 2\frac{3}{8}$