

Addition

- in all - all together
- both - sum - total
- combined - add

- find common denominator
- make equivalent fractions
- Mixed Number CAN STAY!

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

x2

$$+ 6\frac{3}{4}$$

*convert improper to Mixed!

$$10\frac{5}{4} = 10 + 1\frac{1}{4} = 11\frac{1}{4}$$

Subtraction

- difference
- how many/much more
- deduct - left over

- * borrow from the whole when you can't subtract.

$$\cancel{5\frac{1}{10}} = 4\frac{10}{10} + \frac{1}{10} = 4\frac{11}{10}$$

$$\cancel{2\frac{3}{5}} = 2\frac{6}{10}$$

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

Multiplication

- OF! - times
- product
- as much/many as
- change mixed to improper
- cross simplify
- multiply straight across

$$1\frac{1}{2} \times 2\frac{2}{9}$$

$$\cancel{1\frac{2}{2}} \times \cancel{2\frac{2}{9}} = \frac{10}{3}$$

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

Division

- split up - groups of
- quotient - share equally
- divided/divided by
- change mixed to improper
- keep it, change it, flip it
- cross simplify
- multiply straight across

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

$$\frac{8}{3} \div \frac{10}{3}$$

* don't change until all are improper!!

$$\cancel{4\frac{8}{3}} \div \cancel{3\frac{10}{3}} = \frac{4}{5}$$

NOTES 14/11

NOTES

+

$$1\frac{7}{9}$$

$$+ 2\frac{2}{3} = 2\frac{6}{9}$$

$$3\frac{13}{9} = 3 + 1\frac{4}{9} = 4\frac{4}{9}$$

-

$$\cancel{4\frac{1}{4}} = \cancel{4}\frac{2}{12} = 3\frac{12}{12} + \frac{2}{12} = 3\frac{14}{12}$$

$$- 2\frac{7}{12}$$

$$1\frac{7}{12}$$

x

$$2\frac{2}{7} \cdot 1\frac{7}{8}$$

$$2\frac{10}{7} \cdot \frac{15}{81} = \frac{30}{7} = 4\frac{2}{7}$$

÷

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

$$\frac{5}{4} \div \frac{5}{2}$$

$$\frac{15}{24} \times \frac{21}{51} = \frac{1}{2}$$