Complex Fractions Two basic strategies for simplifying:

**Method A:** Simplify the numerator and denominator of the big fraction as much as possible, then divide. Remember that  $\frac{a}{b} = a \div b$  and dividing by a fraction means multiplying by its reciprocal.

**Method B:** Multiply the numerator and denominator of the big fraction by the LCM of all the little fractions (to **clear their denominators**), then simplify what remains.

Example:  $\frac{\frac{7}{4} + \frac{5}{8}}{3 - \frac{5}{6}}$ Method A: simplify the numerator and denominator of the big fraction first.  $\frac{7}{4} + \frac{5}{8} =$  $3 - \frac{5}{6} =$ So  $\frac{\frac{7}{4} + \frac{5}{8}}{3 - \frac{5}{6}} =$ 

Method B: first find the LCM of all the denominators of the little fractions,

LCM =

