b.2 Fractions with
Common Denominators
what is a common
denominator
$$\frac{7}{20} + \frac{3}{20} = \frac{10}{20} = \frac{1}{2}$$

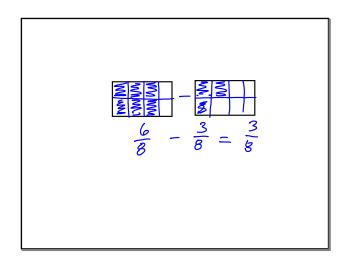
Process

$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$
sum of numerators
over the common denominator
and simplify if needed

$$\frac{1}{4} + \frac{3}{4} = \frac{1+3}{4} = \frac{4}{4} = 1$$
$$\frac{5}{7} + \frac{4}{7} = \frac{5+4}{7} = \frac{9}{7} = 1\frac{2}{7}$$

$$\frac{a}{c} - \frac{b}{c} = \frac{a-b}{c}$$
Difference of numerators
over the common denominator
and simplify if needed

$$\frac{7}{8} - \frac{1}{8} = \frac{7-1}{8} = \frac{1}{8} = \frac{3}{4}$$
$$\frac{25}{48} - \frac{9}{48} = \frac{25-9}{48} = \frac{1}{48} = \frac{1}{3}$$



$$x + \frac{1}{5} = \frac{4}{5} \qquad x = \frac{3}{5}$$

find the value of x
so that the equation
is true
$$\frac{x+1}{5} = \frac{4}{5} \qquad x+1=4$$

$$\begin{array}{l} X - \frac{3}{8} = \frac{1}{2} \quad \text{change } 2 \neq 0 \\ X - \frac{3}{8} = \frac{4}{8} \quad \text{Rewrite} \\ X = \frac{7}{8} \end{array}$$

