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
$\square$

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

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

$$
\frac{a}{c}-\frac{b}{c}=\frac{a-b}{c}
$$

Difference of numerators. over the common denominator and simplify if needed

$$
\begin{aligned}
& \frac{7}{8}-\frac{1}{8}=\frac{7-1}{8}=\frac{6}{8}=\frac{3}{4} \\
& \frac{25}{48}-\frac{9}{48}=\frac{25-9}{48}=\frac{16}{48}=\frac{1}{3}
\end{aligned}
$$

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

find the value of $x$ so that the equation is true

$$
\frac{x+1}{-5}=\frac{4}{5} \quad x+1=4
$$

$x+\frac{4}{5}=1 \frac{2}{5} \quad \begin{aligned} & \text { Rewrite as } \\ & \text { Improper }\end{aligned}$
$x+\frac{4}{5}=\frac{7}{5}$
$x=\frac{3}{5}$

$$
\begin{aligned}
& p 297-298 \\
& 2-36 \text { even }
\end{aligned}
$$

