6.3 Multiplying Proper Fractions
6.4 Multiplying Improper Fractions \& Mixed Numbers
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When multiplying proper fractions
1 multiply numerators
2 multiply denominators
Ex \#1
a) $\frac{1}{2} \xrightarrow{x} \frac{3}{4}$
b) $\frac{1}{2} \xrightarrow{x} \frac{1}{2} \underset{\rightarrow}{x} \frac{2}{7}$

$$
=\frac{3}{8}
$$

$$
=\frac{2}{28}=\frac{1}{14}
$$

When multiplying mixed and proper fractions, change the fraction to improper fractions first
Ex \#2

Ex \#3


$$
\text { a) } \begin{aligned}
& \frac{1}{5} \times 3+\frac{2}{7} \\
= & \frac{1}{5} \xrightarrow{x} \frac{23}{7} \\
= & 23
\end{aligned}
$$

b) length

$$
\begin{aligned}
& 4+\frac{2}{3} \times 4 \times \frac{7}{8} \\
& 1 \text { mixed } \rightarrow \text { improper } \\
& =\frac{14}{3} \longrightarrow \frac{39}{8} \\
& 2 \text { Multiply } \\
& =\frac{546-6}{24-6} \\
& \text { 3. Reduce } \\
& =\frac{91}{4}=22 \frac{3}{4} \\
& 4 \text { Change to mixed }
\end{aligned}
$$

$$
\begin{aligned}
=\frac{23}{35} & =3 \frac{1}{3} \times 1 \frac{2}{3} \\
& =\frac{10}{3} \vec{x} \frac{5}{3}=\frac{50}{9}=5 \frac{5}{9} \\
P g 214 \# 3-11,14,15 &
\end{aligned}
$$

