

# + & - Fractions Rules for Unlike Denominators

## NEW BOTTOM NUMBER

1. Count by the bottom numbers.
2. Circle the match.

## New Top Number

3. Count over to the match.
4. Multiply by old top number.
5. Add/Subtract

- Play with the top, leave the bottom alone.

- Remember to borrow if you need to.

6. Divide if top number is bigger.

7. Reduce if you need to.

$$\frac{1}{2} \times 3 = \frac{3}{6}$$

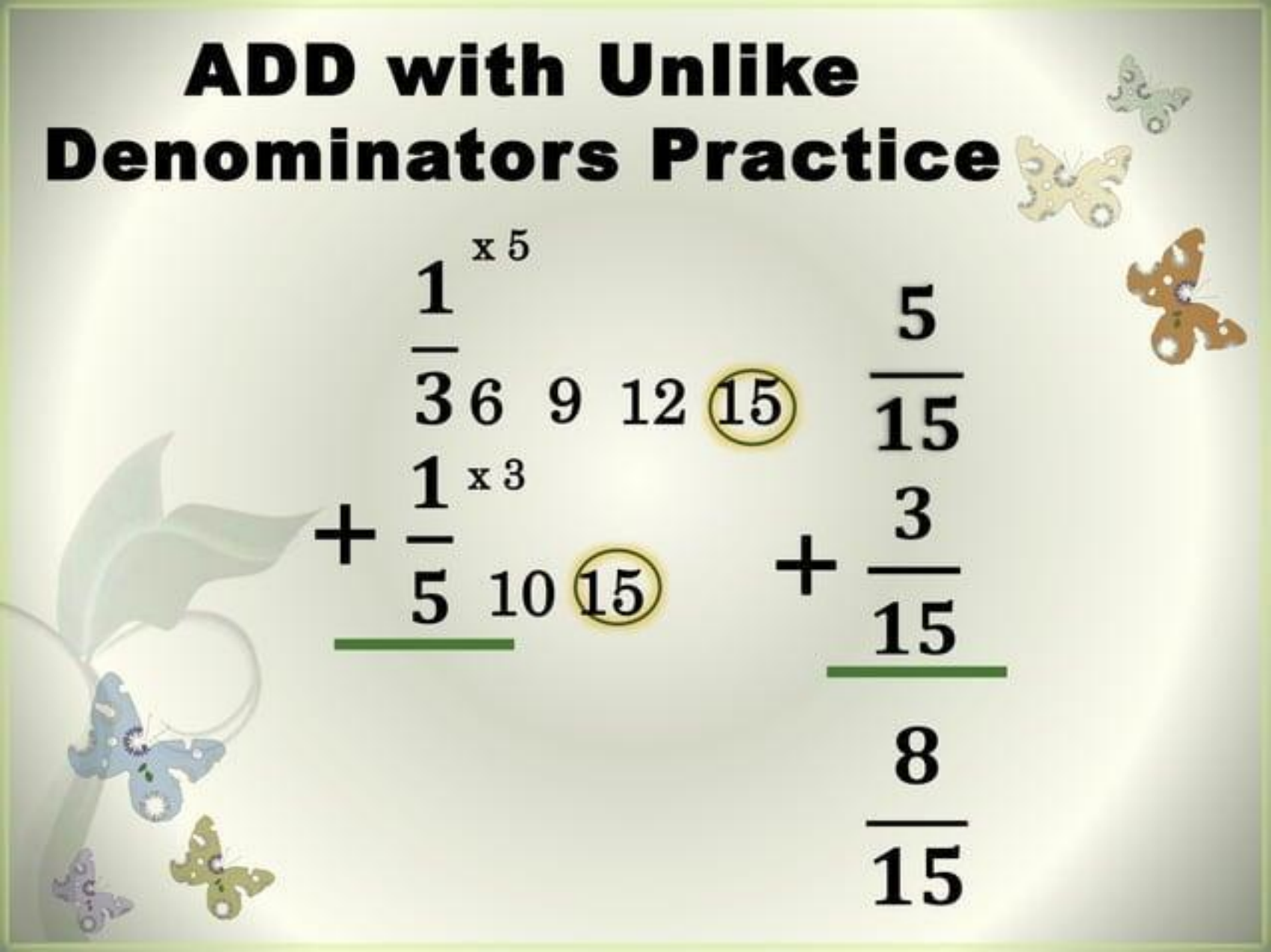
$$+ \frac{1}{6}$$

$$\frac{4}{6} \div 2 = \frac{2}{3}$$

# ADD with Unlike Denominators Practice

$$\begin{array}{r} \overset{\times 5}{1} \\ \hline 4 \end{array} \begin{array}{l} 8 \\ 12 \\ 16 \end{array} \textcircled{20} \quad \begin{array}{r} 5 \\ \hline 20 \end{array}$$
$$+ \begin{array}{r} \overset{\times 4}{1} \\ \hline 5 \end{array} \begin{array}{l} 10 \\ 15 \end{array} \textcircled{20} \quad + \begin{array}{r} 4 \\ \hline 20 \end{array}$$
$$\qquad \qquad \qquad \begin{array}{r} 9 \\ \hline 20 \end{array}$$

# ADD with Unlike Denominators Practice


$$\begin{array}{r} \overset{\times 5}{1} \\ \hline 36912 \text{ (15)} \\ + \overset{\times 3}{1} \\ \hline 510 \text{ (15)} \end{array} \quad \begin{array}{r} 5 \\ \hline 15 \\ + \frac{3}{15} \\ \hline 8 \\ \hline 15 \end{array}$$

# SUBTRACT with Unlike Denominators Practice

$$\begin{array}{r} 1^{\times 5} \\ \hline 4 \quad 8 \quad 12 \quad 16 \quad \textcircled{20} \\ - \quad 1^{\times 4} \\ \hline 5 \quad 10 \quad 15 \quad \textcircled{20} \end{array} \qquad \begin{array}{r} 5 \\ \hline 20 \\ - \quad 4 \\ \hline 20 \\ \hline 1 \\ \hline 20 \end{array}$$



# SUBTRACT with Unlike Denominators Practice

$$\begin{array}{r} 1^{\times 5} \\ \hline 36912\textcircled{15} \\ - 1^{\times 3} \\ \hline 510\textcircled{15} \end{array} \qquad \begin{array}{r} 5 \\ \hline 15 \\ - 3 \\ \hline 15 \\ \hline 2 \\ \hline 15 \end{array}$$