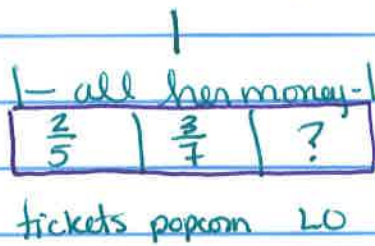


# M3.L11 - Subtracting Fractions/Mixed Numbers

AP

Meredith spent  $\frac{29}{35}$  of her money and had  $\frac{6}{35}$  left over.



$$1 - \left( \frac{2}{5} + \frac{3}{7} \right)$$

$$1 - \left( \frac{2 \times 7}{5 \times 7} + \frac{3 \times 5}{7 \times 5} \right)$$

$$1 - \left( \frac{14}{35} + \frac{15}{35} \right)$$

$$\frac{35}{35} - \frac{29}{35} = \frac{6}{35}$$

1 - 1 half = 1 half

2 - 1 half = 1 and 1 half

3 - 1 half = 2 and 1 half

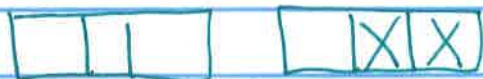
7 - 1 half = 6 and 1 half

1 -  $\frac{1}{3}$  =  $\frac{2}{3}$



1 -  $\frac{2}{3}$  =  $\frac{1}{3}$

2 -  $\frac{2}{3}$  =  $1\frac{1}{3}$



5 -  $\frac{1}{4}$  =  $4\frac{3}{4}$



5 -  $\frac{3}{4}$  =  $4\frac{1}{4}$

# m3. L11 SUBTRACTING Fractions/mixed Numbers

$$\frac{3}{5} - \frac{1}{6}$$

$$\left(\frac{3 \times 6}{5 \times 6}\right) - \left(\frac{1 \times 5}{6 \times 5}\right)$$

$$\frac{18}{30} - \frac{5}{30} = \frac{13}{30}$$

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

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

$$1\frac{3}{4} - \frac{3}{5}$$

$$1\frac{3}{4} - \frac{3}{5}$$

$$1 + \left(\frac{3 \times 5}{4 \times 5}\right) - \left(\frac{3 \times 4}{5 \times 4}\right)$$

$$1 + \frac{15}{20} - \frac{12}{20}$$

$$1\frac{3}{20}$$

$$1\frac{+3}{\times 4} - \frac{3}{5}$$

$$\frac{7}{4} - \frac{3}{5}$$

$$\left(\frac{7 \times 5}{4 \times 5}\right) - \left(\frac{3 \times 4}{5 \times 4}\right)$$

$$\frac{35}{20} - \frac{12}{20}$$

$$\frac{23}{20} = 1\frac{3}{20}$$

$$3\frac{3}{5} - 2\frac{1}{2}$$

$$\left. \begin{array}{l} 1\frac{3}{5} - \frac{1}{2} \\ 1 + \left( \frac{3 \times 2}{5 \times 2} \right) - \left( \frac{1 \times 5}{2 \times 5} \right) \\ 1 + \left( \frac{6}{10} - \frac{5}{10} \right) \\ 1 + \frac{1}{10} \end{array} \right\}$$

$$\left. \begin{array}{l} 3\frac{3}{5} - 2\frac{1}{2} \\ \frac{18}{5} - \frac{5}{2} \\ \left( \frac{18 \times 2}{5 \times 2} \right) - \left( \frac{5 \times 5}{2 \times 5} \right) \\ \frac{36}{10} - \frac{25}{10} \\ \frac{11}{10} = 1\frac{1}{10} \end{array} \right\}$$

$$5\frac{3}{4} - 3\frac{1}{6}$$

$$\left. \begin{array}{l} 5\frac{3}{4} - 3\frac{1}{6} \\ 2\frac{3}{4} - \frac{1}{6} \\ 2 + \left( \frac{3 \times 3}{4 \times 3} \right) - \left( \frac{1 \times 2}{6 \times 2} \right) \\ 2 + \frac{9}{12} - \frac{2}{12} \\ 2\frac{7}{12} \end{array} \right\}$$

$$\left. \begin{array}{l} 5\frac{3}{4} - 3\frac{1}{6} \\ \frac{23}{4} - \frac{19}{6} \\ \left( \frac{23 \times 3}{4 \times 3} \right) - \left( \frac{19 \times 2}{6 \times 2} \right) \\ \frac{69}{12} - \frac{38}{12} \\ \frac{31}{12} \\ \begin{array}{r} 12 \overline{) 31} \\ \underline{-24} \\ 7 \end{array} \end{array} \right\} 2\frac{7}{12}$$