

Worked Examples

1. $742 - 319$

$$\begin{array}{r} 742 \\ - 319 \\ \hline \end{array}$$

$$\begin{array}{r} ^3 \\ 7\cancel{4}^1 2 \\ - 319 \\ \hline 423 \end{array}$$

All these exercises are similar. Start on the right. Regroup as needed.

2. (9 feet 3 inches) - (2 feet 8 inches)

$$\begin{array}{r} 8 \quad 15 \\ \cancel{9} \text{ ft. } \cancel{3} \text{ in.} \\ - 2 \text{ ft. } 8 \text{ in.} \\ \hline 6 \text{ ft. } 7 \text{ in.} \end{array}$$

Use 1ft. = 12in
3in. + 12in = 15 in.

3. $6\frac{1}{5} - 4\frac{2}{3}$

Get common denominator

$$\begin{array}{r} 6\frac{1}{5} \rightarrow 6\frac{3}{15} \rightarrow 5\frac{18}{15} \\ - 4\frac{2}{3} \quad - 4\frac{10}{15} \quad - 4\frac{10}{15} \\ \hline 1\frac{8}{15} \end{array}$$

Use $1 = \frac{15}{15}$
 $\frac{3}{15} + \frac{15}{15} = \frac{18}{15}$

4. (7 hr. 5 min. 13 sec.) - (2 hr. 37 min. 43 sec.)

$$\begin{array}{r} 6 \quad 64 \quad 73 \\ \cancel{7} \text{ hr. } \cancel{5} \text{ min. } \cancel{13} \text{ sec.} \\ - 2 \text{ hr. } 37 \text{ min. } 43 \text{ sec.} \\ \hline 4 \text{ hr. } 27 \text{ min. } 30 \text{ sec.} \end{array}$$

Use
1 min. = 60 sec.
13 sec + 60 sec = 73 sec.

Use
1 hr. = 60 min
60 min + 4 min = 64 min.

Objective: Use regrouping for subtraction for mixed numbers and measurements.