

Dealing with Negatives 2 - Solutions

$$\begin{aligned}
 -6 + (-41) - (-89) + 92 - (-61) &= \textcolor{red}{195} \\
 &= -6 - 41 + 89 + 92 + 61 \\
 &= (89 + 92 + 61) - (6 + 41) \\
 &= \textcolor{blue}{242} - \textcolor{blue}{47} \\
 &= \textcolor{red}{195}
 \end{aligned}$$

$$\begin{array}{r}
 \begin{array}{r}
 \overset{2}{8}9 \\
 92 \\
 + 61 \\
 \hline
 \textcolor{blue}{242}
 \end{array}
 \qquad
 \begin{array}{r}
 41 \\
 + 6 \\
 \hline
 \textcolor{blue}{47}
 \end{array}
 \qquad
 \begin{array}{r}
 \overset{1}{2}\overset{3}{4}2 \\
 - 47 \\
 \hline
 \textcolor{red}{195}
 \end{array}
 \end{array}$$

$$\begin{aligned}
 -7 - (-19) + (-2) + 51 - 84 &= \textcolor{red}{-23} \\
 &= -7 + 19 - 2 + 51 - 84 \\
 &= (19 + 51) - (7 + 2 + 84) \\
 &= \textcolor{blue}{70} - \textcolor{blue}{93} \\
 &= \textcolor{red}{-23}
 \end{aligned}$$

$$\begin{array}{r}
 \begin{array}{r}
 \overset{1}{1}9 \\
 + 51 \\
 \hline
 \textcolor{blue}{70}
 \end{array}
 \qquad
 \begin{array}{r}
 \overset{1}{7} \\
 2 \\
 + 84 \\
 \hline
 \textcolor{blue}{93}
 \end{array}
 \qquad
 \begin{array}{r}
 93 \\
 - 70 \\
 \hline
 \textcolor{red}{23}
 \end{array}
 \end{array}$$

$$\begin{aligned}
 -2 - 57 - (-29) - (-78) - (-18) &= \textcolor{red}{66} \\
 &= -2 - 57 + 29 + 78 + 18 \\
 &= (29 + 78 + 18) - (2 + 57) \\
 &= \textcolor{blue}{125} - \textcolor{blue}{59} \\
 &= \textcolor{red}{66}
 \end{aligned}$$

$$\begin{array}{r}
 \begin{array}{r}
 \overset{1}{2}9 \\
 78 \\
 + 18 \\
 \hline
 \textcolor{blue}{125}
 \end{array}
 \qquad
 \begin{array}{r}
 57 \\
 + 2 \\
 \hline
 \textcolor{blue}{59}
 \end{array}
 \qquad
 \begin{array}{r}
 \overset{0}{1}\overset{1}{2}5 \\
 - 59 \\
 \hline
 \textcolor{red}{66}
 \end{array}
 \end{array}$$

$$\begin{aligned}
 (-11) + 47 + 99 - (-25) &= \textcolor{red}{160} \\
 &= -11 + 47 + 99 + 25 \\
 &= (47 + 99 + 25) - 11 \\
 &= \textcolor{blue}{171} - 11 \\
 &= \textcolor{red}{160}
 \end{aligned}$$

$$\begin{array}{r}
 \begin{array}{r}
 \overset{1}{4}7 \\
 99 \\
 + 25 \\
 \hline
 \textcolor{blue}{171}
 \end{array}
 \qquad
 \begin{array}{r}
 171 \\
 - 11 \\
 \hline
 \textcolor{red}{160}
 \end{array}
 \end{array}$$

$$\begin{aligned}
 -8 - (-19) - 22 - (-39) - 42 &= \textcolor{red}{-14} \\
 &= -8 + 19 - 22 + 39 - 42 \\
 &= (19 + 39) - (8 + 22 + 42) \\
 &= \textcolor{blue}{58} - \textcolor{blue}{72} \\
 &= \textcolor{red}{-14}
 \end{aligned}$$

$$\begin{array}{r}
 \begin{array}{r}
 \overset{1}{1}9 \\
 + 39 \\
 \hline
 \textcolor{blue}{58}
 \end{array}
 \qquad
 \begin{array}{r}
 \overset{1}{8} \\
 22 \\
 + 42 \\
 \hline
 \textcolor{blue}{72}
 \end{array}
 \qquad
 \begin{array}{r}
 \overset{6}{7}2 \\
 - 58 \\
 \hline
 \textcolor{red}{14}
 \end{array}
 \end{array}$$

$$\begin{aligned}
 (-12) - (-48) + (-10) + (-81) + (-22) &= \textcolor{red}{-77} \\
 &= -12 + 48 - 10 - 81 - 22 \\
 &= 48 - (12 + 10 + 81 + 22) \\
 &= 48 - \textcolor{blue}{125} \\
 &= \textcolor{red}{-77}
 \end{aligned}$$

$$\begin{array}{r}
 \begin{array}{r}
 \overset{1}{1}2 \\
 10 \\
 81 \\
 + 22 \\
 \hline
 \textcolor{blue}{125}
 \end{array}
 \qquad
 \begin{array}{r}
 \overset{0}{1}\overset{1}{2}5 \\
 - 48 \\
 \hline
 \textcolor{red}{77}
 \end{array}
 \end{array}$$

$$\begin{aligned}
 2 + 87 - 68 - (-81) - (-99) &= \textcolor{red}{201} \\
 &= 2 + 87 - 68 + 81 + 99 \\
 &= (2 + 87 + 81 + 99) - 68 \\
 &= \textcolor{blue}{269} - 68 \\
 &= \textcolor{red}{201}
 \end{aligned}$$

$$\begin{array}{r}
 \begin{array}{r}
 \overset{2}{2} \\
 87 \\
 81 \\
 + 99 \\
 \hline
 \textcolor{blue}{269}
 \end{array}
 \qquad
 \begin{array}{r}
 269 \\
 - 68 \\
 \hline
 \textcolor{red}{201}
 \end{array}
 \end{array}$$