

# Dealing with Negatives 6 - Solutions

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$$\begin{aligned}
 (-10) - (-10) - 33 + (-81) - (-35) &= -79 & \begin{array}{r} 1 \\ 33 \\ + 81 \\ \hline 114 \end{array} & \begin{array}{r} 0 \\ 0 \\ 1 \\ \cancel{14} \\ - 35 \\ \hline 79 \end{array} \\
 &= -10 + 10 - 33 - 81 + 35 \\
 &= 35 - (33 + 81) \\
 &= 35 - 114 \\
 &= -79
 \end{aligned}$$

$$\begin{aligned}
 -7 - 17 + (-20) + (-63) + 60 + (-79) &= -126 & \begin{array}{r} 1 \\ 2 \\ 7 \\ 17 \\ 20 \\ 63 \\ + 79 \\ \hline 186 \end{array} & \begin{array}{r} 186 \\ - 60 \\ \hline 126 \end{array} \\
 &= -7 - 17 - 20 - 63 + 60 - 79 \\
 &= 60 - (7 + 17 + 20 + 63 + 79) \\
 &= 60 - 186 \\
 &= -126
 \end{aligned}$$

$$\begin{aligned}
 (-6) + (-65) - (-66) + 28 - (-15) - 70 &= -32 & \begin{array}{r} 1 \\ 1 \\ 66 \\ 28 \\ + 15 \\ \hline 109 \end{array} & \begin{array}{r} 1 \\ 1 \\ 65 \\ 70 \\ + 6 \\ \hline 141 \end{array} & \begin{array}{r} 3 \\ 1 \\ \cancel{141} \\ - 109 \\ \hline 32 \end{array} \\
 &= -6 - 65 + 66 + 28 + 15 - 70 \\
 &= (66 + 28 + 15) - (6 + 65 + 70) \\
 &= 109 - 141 \\
 &= -32
 \end{aligned}$$

$$\begin{aligned}
 2 - 84 - 59 + 80 - (-54) - 88 &= -95 & \begin{array}{r} 1 \\ 80 \\ 54 \\ + 2 \\ \hline 136 \end{array} & \begin{array}{r} 2 \\ 2 \\ 84 \\ 84 \\ + 59 \\ \hline 231 \end{array} & \begin{array}{r} 1 \\ 2 \\ 1 \\ \cancel{231} \\ - 136 \\ \hline 95 \end{array} \\
 &= 2 - 84 - 59 + 80 + 54 - 88 \\
 &= (2 + 80 + 54) - (84 + 59 + 88) \\
 &= 136 - 231 \\
 &= -95
 \end{aligned}$$

$$\begin{aligned}
 (-8) + (-7) - (-47) + (-81) - 13 - (-73) &= 11 & \begin{array}{r} 1 \\ 1 \\ 47 \\ + 73 \\ \hline 120 \end{array} & \begin{array}{r} 1 \\ 1 \\ 81 \\ 13 \\ 8 \\ + 7 \\ \hline 109 \end{array} & \begin{array}{r} 1 \\ 1 \\ \cancel{120} \\ - 109 \\ \hline 11 \end{array} \\
 &= -8 - 7 + 47 - 81 - 13 + 73 \\
 &= (47 + 73) - (8 + 7 + 81 + 13) \\
 &= 120 - 109 \\
 &= 11
 \end{aligned}$$

$$\begin{aligned}
 6 - (-29) + 20 - (-5) - 1 + (-63) &= -4 & \begin{array}{r} 2 \\ 29 \\ 20 \\ 6 \\ + 5 \\ \hline 60 \end{array} & \begin{array}{r} 64 \\ - 60 \\ \hline 4 \end{array} \\
 &= 6 + 29 + 20 + 5 - 1 - 63 \\
 &= (6 + 29 + 20 + 5) - (1 + 63) \\
 &= 60 - 64 \\
 &= -4
 \end{aligned}$$

$$\begin{aligned}
 (-8) + (-53) - 14 + 86 - (-96) + 55 &= 162 & \begin{array}{r} 2 \\ 1 \\ 96 \\ 86 \\ + 55 \\ \hline 237 \end{array} & \begin{array}{r} 1 \\ 53 \\ 14 \\ + 8 \\ \hline 75 \end{array} & \begin{array}{r} 1 \\ 1 \\ \cancel{237} \\ - 75 \\ \hline 162 \end{array} \\
 &= -8 - 53 - 14 + 86 + 96 + 55 \\
 &= (86 + 96 + 55) - (8 + 53 + 14) \\
 &= 237 - 75 \\
 &= 162
 \end{aligned}$$