

【1】 右の□の中に、1～9の数字を一度だけ使って入れて、式が正しくなるようにしましょう。

$$\boxed{9} - \boxed{5} = \boxed{4}$$

$$\times$$

$$\boxed{6} \div \boxed{3} = \boxed{2}$$

$$\parallel$$

$$\boxed{1} + \boxed{7} = \boxed{8}$$

【2】 下の□の中に0～9の数字を一度だけ使って入れて、足し算が正しくなるようにしたい。上下の数字の入れ換えを同一と考えれば、12通りあります。それらを全て求めてみよう。

$$\begin{array}{r} \textcircled{1} \quad \boxed{4} \boxed{3} \boxed{7} \\ + \boxed{5} \boxed{8} \boxed{9} \\ \hline \boxed{1} \boxed{0} \boxed{2} \boxed{6} \end{array}$$

$$\begin{array}{r} \textcircled{2} \quad \boxed{2} \boxed{4} \boxed{6} \\ + \boxed{7} \boxed{8} \boxed{9} \\ \hline \boxed{1} \boxed{0} \boxed{3} \boxed{5} \end{array}$$

$$\begin{array}{r} \textcircled{3} \quad \boxed{3} \boxed{2} \boxed{4} \\ + \boxed{7} \boxed{6} \boxed{5} \\ \hline \boxed{1} \boxed{0} \boxed{8} \boxed{9} \end{array}$$

$$\begin{array}{r} \textcircled{4} \quad \boxed{4} \boxed{7} \boxed{3} \\ + \boxed{5} \boxed{8} \boxed{9} \\ \hline \boxed{1} \boxed{0} \boxed{6} \boxed{2} \end{array}$$

$$\begin{array}{r} \textcircled{5} \quad \boxed{2} \boxed{6} \boxed{4} \\ + \boxed{7} \boxed{8} \boxed{9} \\ \hline \boxed{1} \boxed{0} \boxed{5} \boxed{3} \end{array}$$

$$\begin{array}{r} \textcircled{6} \quad \boxed{4} \boxed{3} \boxed{2} \\ + \boxed{6} \boxed{5} \boxed{7} \\ \hline \boxed{1} \boxed{0} \boxed{8} \boxed{9} \end{array}$$

$$\begin{array}{r} \textcircled{7} \quad \boxed{3} \boxed{4} \boxed{7} \\ + \boxed{8} \boxed{5} \boxed{9} \\ \hline \boxed{1} \boxed{2} \boxed{0} \boxed{6} \end{array}$$

$$\begin{array}{r} \textcircled{8} \quad \boxed{4} \boxed{2} \boxed{6} \\ + \boxed{8} \boxed{7} \boxed{9} \\ \hline \boxed{1} \boxed{3} \boxed{0} \boxed{5} \end{array}$$

$$\begin{array}{r} \textcircled{9} \quad \boxed{3} \boxed{4} \boxed{2} \\ + \boxed{7} \boxed{5} \boxed{6} \\ \hline \boxed{1} \boxed{0} \boxed{9} \boxed{8} \end{array}$$

$$\begin{array}{r} \textcircled{10} \quad \boxed{7} \boxed{4} \boxed{3} \\ + \boxed{8} \boxed{5} \boxed{9} \\ \hline \boxed{1} \boxed{6} \boxed{0} \boxed{2} \end{array}$$

$$\begin{array}{r} \textcircled{11} \quad \boxed{6} \boxed{2} \boxed{4} \\ + \boxed{8} \boxed{7} \boxed{9} \\ \hline \boxed{1} \boxed{5} \boxed{0} \boxed{3} \end{array}$$

$$\begin{array}{r} \textcircled{12} \quad \boxed{4} \boxed{2} \boxed{3} \\ + \boxed{6} \boxed{7} \boxed{5} \\ \hline \boxed{1} \boxed{0} \boxed{9} \boxed{8} \end{array}$$

【3】 異なる文字は異なる数字を表し、同じ文字は同じ数字を表すものとします。下の図式の中に0～9の数字を全部使って入れて、足し算が正しくなるようにしましょう。7通りの答が知られています。ただし、S<G、R<L とします。

$$\begin{array}{r} \text{SEND} \\ \text{MORE} \\ + \text{GOLD} \\ \hline \text{MONEY} \end{array}$$

$$\begin{array}{r} \textcircled{2} \quad \boxed{2} \boxed{8} \boxed{9} \boxed{4} \\ \boxed{1} \boxed{0} \boxed{3} \boxed{8} \\ + \boxed{7} \boxed{0} \boxed{5} \boxed{4} \\ \hline \boxed{1} \boxed{0} \boxed{9} \boxed{8} \boxed{6} \end{array}$$

$$\begin{array}{r} \textcircled{4} \quad \boxed{4} \boxed{6} \boxed{7} \boxed{3} \\ \boxed{1} \boxed{5} \boxed{0} \boxed{6} \\ + \boxed{9} \boxed{5} \boxed{8} \boxed{3} \\ \hline \boxed{1} \boxed{5} \boxed{7} \boxed{6} \boxed{2} \end{array}$$

$$\begin{array}{r} \textcircled{6} \quad \boxed{5} \boxed{4} \boxed{7} \boxed{8} \\ \boxed{1} \boxed{6} \boxed{2} \boxed{4} \\ + \boxed{9} \boxed{6} \boxed{3} \boxed{8} \\ \hline \boxed{1} \boxed{6} \boxed{7} \boxed{4} \boxed{0} \end{array}$$

$$\begin{array}{r} \textcircled{1} \quad \boxed{2} \boxed{8} \boxed{5} \boxed{6} \\ \boxed{1} \boxed{3} \boxed{4} \boxed{8} \\ + \boxed{9} \boxed{3} \boxed{7} \boxed{6} \\ \hline \boxed{1} \boxed{3} \boxed{5} \boxed{8} \boxed{0} \end{array}$$

$$\begin{array}{r} \textcircled{3} \quad \boxed{4} \boxed{2} \boxed{3} \boxed{7} \\ \boxed{1} \boxed{5} \boxed{0} \boxed{2} \\ + \boxed{9} \boxed{5} \boxed{8} \boxed{7} \\ \hline \boxed{1} \boxed{5} \boxed{3} \boxed{2} \boxed{6} \end{array}$$

$$\begin{array}{r} \textcircled{5} \quad \boxed{4} \boxed{8} \boxed{5} \boxed{6} \\ \boxed{1} \boxed{3} \boxed{2} \boxed{8} \\ + \boxed{7} \boxed{3} \boxed{9} \boxed{6} \\ \hline \boxed{1} \boxed{3} \boxed{5} \boxed{8} \boxed{0} \end{array}$$

$$\begin{array}{r} \textcircled{7} \quad \boxed{6} \boxed{0} \boxed{5} \boxed{4} \\ \boxed{1} \boxed{7} \boxed{2} \boxed{0} \\ + \boxed{9} \boxed{7} \boxed{3} \boxed{4} \\ \hline \boxed{1} \boxed{7} \boxed{5} \boxed{0} \boxed{8} \end{array}$$