

Oct 6 Worksheet

1. Find appropriate values for the letters so that the following arithmetical equations make sense. Note that these sort of problems may have several solutions.

$$\begin{array}{r} \phantom{+} \phantom{D} \phantom{I} \phantom{D} \\ \phantom{+} \phantom{D} \phantom{I} \phantom{D} \\ \hline + \phantom{D} \phantom{I} \phantom{D} \\ \phantom{+} \phantom{D} \phantom{I} \phantom{D} \end{array}$$

$$\begin{array}{r} \phantom{+} \phantom{I} \phantom{L} \phantom{L} \\ \phantom{+} \phantom{I} \phantom{L} \phantom{L} \\ \hline + \phantom{I} \phantom{L} \phantom{L} \\ \phantom{+} \phantom{I} \phantom{L} \phantom{L} \end{array}$$

$$\begin{array}{r} \phantom{+} \phantom{N} \phantom{O} \phantom{R} \phantom{A} \\ \phantom{+} \phantom{N} \phantom{O} \phantom{R} \phantom{A} \\ \hline + \phantom{N} \phantom{O} \phantom{R} \phantom{A} \\ \phantom{+} \phantom{N} \phantom{O} \phantom{R} \phantom{A} \end{array}$$

$$\begin{array}{r} \phantom{+} \phantom{H} \phantom{A} \phantom{N} \phantom{D} \\ \phantom{+} \phantom{H} \phantom{A} \phantom{N} \phantom{D} \\ \hline + \phantom{H} \phantom{A} \phantom{N} \phantom{D} \\ \phantom{+} \phantom{H} \phantom{A} \phantom{N} \phantom{D} \end{array}$$

$$\begin{array}{r} \phantom{+} \phantom{E} \phantom{L} \phantom{L} \phantom{E} \phantom{N} \\ \phantom{+} \phantom{E} \phantom{L} \phantom{L} \phantom{E} \phantom{N} \\ \hline + \phantom{E} \phantom{L} \phantom{L} \phantom{E} \phantom{N} \\ \phantom{+} \phantom{E} \phantom{L} \phantom{L} \phantom{E} \phantom{N} \end{array}$$

$$\begin{array}{r} \phantom{+} \phantom{M} \phantom{E} \phantom{O} \phantom{W} \\ \phantom{+} \phantom{M} \phantom{E} \phantom{O} \phantom{W} \\ \hline + \phantom{M} \phantom{E} \phantom{O} \phantom{W} \\ \phantom{+} \phantom{M} \phantom{E} \phantom{O} \phantom{W} \end{array}$$

2. Solve the following age problems.
- (a) In 1855 Sitting Bull's age equaled the product of the four digits in the year he was born. If he was born in the 19th century, what is his birth year?
  - (b) In 1873 Berthe Morisot's age equaled the product of the four digits in the year she was born. If she was born in the 19th century, what is her birth year?
  - (c) In 2053, Beyonce's age will equal the product of the four digits in the year she was born. What is her birth year?
  - (d) In 2034, Julian Assange's age will equal the product of the four digits in the year he was born. What is his birth year?