

Name: _____

Strategy: 9 Times

Date: _____

Worksheet: M6

A group of 9 requires tact, start with 10 and then subtract!

"I have a fast way to multiply 9×5 . I start with $10 \times 5 = 50$, then subtract 5 to get the answer $50 - 5 = 45$. 10 is easier than 9, and a group of 9 is easier as 1 less than 10!"

$$1. \quad 9 \times 5 = \begin{array}{|c|} \hline 50 \\ \hline 10 \times 5 \\ \hline \end{array} - \begin{array}{|c|} \hline 5 \\ \hline 1 \times 5 \\ \hline \end{array} = \begin{array}{|c|} \hline 45 \\ \hline \end{array}$$

$$3. \quad 9 \times 7 = \begin{array}{|c|} \hline \\ \hline 10 \times 7 \\ \hline \end{array} - \begin{array}{|c|} \hline 7 \\ \hline 1 \times 7 \\ \hline \end{array} = \begin{array}{|c|} \hline \\ \hline \end{array}$$

$$2. \quad 9 \times 6 = \begin{array}{|c|} \hline 60 \\ \hline 10 \times 6 \\ \hline \end{array} - \begin{array}{|c|} \hline \\ \hline 1 \times 6 \\ \hline \end{array} = \begin{array}{|c|} \hline \\ \hline \end{array}$$

$$4. \quad 9 \times 12 = \begin{array}{|c|} \hline \\ \hline 10 \times 12 \\ \hline \end{array} - \begin{array}{|c|} \hline \\ \hline 1 \times 12 \\ \hline \end{array} = \begin{array}{|c|} \hline \\ \hline \end{array}$$

Now try doing all the steps in your head!

$$5. \quad 9 \times 8 = \begin{array}{|c|} \hline \\ \hline \end{array}$$

$$9. \quad 9 \times 56 = \begin{array}{|c|} \hline \\ \hline \end{array}$$

$$6. \quad 9 \times 9 = \begin{array}{|c|} \hline \\ \hline \end{array}$$

$$10. \quad 9 \times 67 = \begin{array}{|c|} \hline \\ \hline \end{array}$$

$$7. \quad 9 \times 23 = \begin{array}{|c|} \hline \\ \hline \end{array}$$

$$11. \quad 9 \times 78 = \begin{array}{|c|} \hline \\ \hline \end{array}$$

$$8. \quad 9 \times 45 = \begin{array}{|c|} \hline \\ \hline \end{array}$$

$$12. \quad 9 \times 89 = \begin{array}{|c|} \hline \\ \hline \end{array}$$