



Multiplication By Estimation

Examples:

$$\begin{array}{r} \text{a) } 23 \\ \times 2 \\ \hline \\ \hline \end{array} \rightarrow \begin{array}{r} 20 \\ \times 2 \\ \hline \\ \hline \end{array}$$

Round the top number, so that you can quickly see what the approximate answer will be

$$\begin{array}{r} \text{b) } 48 \\ \times 25 \\ \hline \\ \hline \end{array} \rightarrow \begin{array}{r} 50 \\ \times 30 \\ \hline \\ \hline \end{array}$$

Multiply the 5 and 3, which equals 15, put the two zeros into the final answer

$$\begin{array}{r} 1) 73 \\ \times 2 \\ \hline \\ \hline \end{array} \rightarrow$$

$$\begin{array}{r} 8) 15 \\ \times 2 \\ \hline \\ \hline \end{array} \rightarrow$$

$$\begin{array}{r} 15) 53 \\ \times 3 \\ \hline \\ \hline \end{array} \rightarrow$$

$$\begin{array}{r} 2) 81 \\ \times 3 \\ \hline \\ \hline \end{array} \rightarrow$$

$$\begin{array}{r} 9) 21 \\ \times 3 \\ \hline \\ \hline \end{array} \rightarrow$$

$$\begin{array}{r} 16) 71 \\ \times 3 \\ \hline \\ \hline \end{array} \rightarrow$$

$$\begin{array}{r} 3) 64 \\ \times 4 \\ \hline \\ \hline \end{array} \rightarrow$$

$$\begin{array}{r} 10) 68 \\ \times 14 \\ \hline \\ \hline \end{array} \rightarrow$$

$$\begin{array}{r} 17) 68 \\ \times 18 \\ \hline \\ \hline \end{array} \rightarrow$$

$$\begin{array}{r} 4) 47 \\ \times 1 \\ \hline \\ \hline \end{array} \rightarrow$$

$$\begin{array}{r} 11) 24 \\ \times 37 \\ \hline \\ \hline \end{array} \rightarrow$$

$$\begin{array}{r} 18) 97 \\ \times 3 \\ \hline \\ \hline \end{array} \rightarrow$$

$$\begin{array}{r} 5) 16 \\ \times 3 \\ \hline \\ \hline \end{array} \rightarrow$$

$$\begin{array}{r} 12) 15 \\ \times 4 \\ \hline \\ \hline \end{array} \rightarrow$$

$$\begin{array}{r} 19) 77 \\ \times 19 \\ \hline \\ \hline \end{array} \rightarrow$$

$$\begin{array}{r} 6) 89 \\ \times 4 \\ \hline \\ \hline \end{array} \rightarrow$$

$$\begin{array}{r} 13) 36 \\ \times 1 \\ \hline \\ \hline \end{array} \rightarrow$$

$$\begin{array}{r} 7) 11 \\ \times 2 \\ \hline \\ \hline \end{array} \rightarrow$$

$$\begin{array}{r} 14) 19 \\ \times 68 \\ \hline \\ \hline \end{array} \rightarrow$$

