



Multiplication By Estimation

Examples:

$$\begin{array}{r} \text{a) } 23 \\ \times 2 \\ \hline \end{array} \longrightarrow \begin{array}{r} 20 \\ \times 2 \\ \hline 40 \end{array}$$

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

$$\begin{array}{r} \text{b) } 48 \\ \times 25 \\ \hline \end{array} \longrightarrow \begin{array}{r} 50 \\ \times 30 \\ \hline 1500 \end{array}$$

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

$$\begin{array}{r} \text{1) } 73 \\ \times 2 \\ \hline \end{array} \longrightarrow \begin{array}{r} 70 \\ \times 2 \\ \hline 140 \end{array}$$

$$\begin{array}{r} \text{8) } 15 \\ \times 2 \\ \hline \end{array} \longrightarrow \begin{array}{r} 20 \\ \times 2 \\ \hline 40 \end{array}$$

$$\begin{array}{r} \text{15) } 53 \\ \times 3 \\ \hline \end{array} \longrightarrow \begin{array}{r} 50 \\ \times 3 \\ \hline 150 \end{array}$$

$$\begin{array}{r} \text{2) } 81 \\ \times 3 \\ \hline \end{array} \longrightarrow \begin{array}{r} 80 \\ \times 3 \\ \hline 140 \end{array}$$

$$\begin{array}{r} \text{9) } 21 \\ \times 3 \\ \hline \end{array} \longrightarrow \begin{array}{r} 20 \\ \times 3 \\ \hline 60 \end{array}$$

$$\begin{array}{r} \text{16) } 71 \\ \times 3 \\ \hline \end{array} \longrightarrow \begin{array}{r} 70 \\ \times 3 \\ \hline 210 \end{array}$$

$$\begin{array}{r} \text{3) } 64 \\ \times 4 \\ \hline \end{array} \longrightarrow \begin{array}{r} 60 \\ \times 4 \\ \hline 240 \end{array}$$

$$\begin{array}{r} \text{10) } 68 \\ \times 14 \\ \hline \end{array} \longrightarrow \begin{array}{r} 70 \\ \times 10 \\ \hline 700 \end{array}$$

$$\begin{array}{r} \text{17) } 68 \\ \times 18 \\ \hline \end{array} \longrightarrow \begin{array}{r} 70 \\ \times 20 \\ \hline 1400 \end{array}$$

$$\begin{array}{r} \text{4) } 47 \\ \times 1 \\ \hline \end{array} \longrightarrow \begin{array}{r} 50 \\ \times 1 \\ \hline 50 \end{array}$$

$$\begin{array}{r} \text{11) } 24 \\ \times 37 \\ \hline \end{array} \longrightarrow \begin{array}{r} 20 \\ \times 40 \\ \hline 800 \end{array}$$

$$\begin{array}{r} \text{18) } 97 \\ \times 3 \\ \hline \end{array} \longrightarrow \begin{array}{r} 100 \\ \times 3 \\ \hline 300 \end{array}$$

$$\begin{array}{r} \text{5) } 16 \\ \times 3 \\ \hline \end{array} \longrightarrow \begin{array}{r} 20 \\ \times 3 \\ \hline 60 \end{array}$$

$$\begin{array}{r} \text{12) } 15 \\ \times 4 \\ \hline \end{array} \longrightarrow \begin{array}{r} 20 \\ \times 4 \\ \hline 80 \end{array}$$

$$\begin{array}{r} \text{19) } 77 \\ \times 19 \\ \hline \end{array} \longrightarrow \begin{array}{r} 80 \\ \times 20 \\ \hline 1600 \end{array}$$

$$\begin{array}{r} \text{6) } 89 \\ \times 4 \\ \hline \end{array} \longrightarrow \begin{array}{r} 90 \\ \times 4 \\ \hline 360 \end{array}$$

$$\begin{array}{r} \text{13) } 36 \\ \times 1 \\ \hline \end{array} \longrightarrow \begin{array}{r} 40 \\ \times 1 \\ \hline 40 \end{array}$$

$$\begin{array}{r} \text{7) } 11 \\ \times 2 \\ \hline \end{array} \longrightarrow \begin{array}{r} 10 \\ \times 2 \\ \hline 20 \end{array}$$

$$\begin{array}{r} \text{14) } 19 \\ \times 68 \\ \hline \end{array} \longrightarrow \begin{array}{r} 20 \\ \times 70 \\ \hline 1400 \end{array}$$

