

1) Multiply the given numbers in **vertical way**:

a) Multiply 21 by 23

Step 2:

$$\begin{array}{r} 21 \\ \times 23 \\ \hline \square\square \\ \hline \\ \hline \\ \hline \end{array}$$

Step 3:

$$\begin{array}{r} 21 \\ \times 23 \\ \hline \square\square \\ \square\square\square \\ \hline \square\square\square\square \\ \hline \end{array}$$

b) Multiply 32 by 24

Step 2:

$$\begin{array}{r} 32 \\ \times 24 \\ \hline \square\square\square \\ \hline \\ \hline \\ \hline \end{array}$$

Step 3:

$$\begin{array}{r} 32 \\ \times 24 \\ \hline \square\square\square \\ \square\square\square\square \\ \hline \square\square\square\square\square \\ \hline \end{array}$$

c) Multiply 34 by 25

Step 2:

Step 3:

d) Multiply 45 by 23

Step 2:

Step 3:

e) Multiply 48 by 23

Step 2:

$$\begin{array}{r} 48 \\ \times 23 \\ \hline \end{array}$$

Step 3:

$$\begin{array}{r} 48 \\ \times 23 \\ \hline 96 \\ + 960 \\ \hline 1116 \end{array}$$

f) Multiply 59 by 23

Step 2:

$$\begin{array}{r} 59 \\ \times 23 \\ \hline \end{array}$$

Step 3:

$$\begin{array}{r} 59 \\ \times 23 \\ \hline 118 \\ + 1180 \\ \hline 1358 \end{array}$$
