

# LONG MULTIPLICATION

## A MULTIPLICATION TABLES FOR MULTIPLES OF 10

### A.1 MULTIPLYING FOR MULTIPLES OF 10

Ex 1:

$$3 \times 50 = \boxed{150}$$

Answer:

- $3 \times 5 = 15$
- $3 \times 50 = 150$

Ex 2:

$$4 \times 20 = \boxed{80}$$

Answer:

- $4 \times 2 = 8$
- $4 \times 20 = 80$

Ex 3:

$$2 \times 70 = \boxed{140}$$

Answer:

- $2 \times 7 = 14$
- $2 \times 70 = 140$

Ex 4:

$$3 \times 60 = \boxed{180}$$

Answer:

- $3 \times 6 = 18$
- $3 \times 60 = 180$

Ex 5:

$$5 \times 40 = \boxed{200}$$

Answer:

- $5 \times 4 = 20$
- $5 \times 40 = 200$

Ex 6:

$$6 \times 50 = \boxed{300}$$

Answer:

- $6 \times 5 = 30$
- $6 \times 50 = 300$

Ex 7:

$$4 \times 90 = \boxed{360}$$

Answer:

- $4 \times 9 = 36$
- $4 \times 90 = 360$

### A.2 MULTIPLYING FOR MULTIPLES OF 10

Ex 8:

$$30 \times 5 = \boxed{150}$$

Answer:

- $3 \times 5 = 15$
- $30 \times 5 = 150$

Ex 9:

$$40 \times 6 = \boxed{240}$$

Answer:

- $4 \times 6 = 24$
- $40 \times 6 = 240$

Ex 10:

$$50 \times 7 = \boxed{350}$$

Answer:

- $5 \times 7 = 35$
- $50 \times 7 = 350$

Ex 11:

$$20 \times 8 = \boxed{160}$$

Answer:

- $2 \times 8 = 16$
- $20 \times 8 = 160$

Ex 12:

$$60 \times 4 = \boxed{240}$$

Answer:

- $6 \times 4 = 24$
- $60 \times 4 = 240$

Ex 13:

$$70 \times 3 = \boxed{210}$$

Answer:

- $7 \times 3 = 21$
- $70 \times 3 = 210$

Ex 14:

$$90 \times 2 = \boxed{180}$$

Answer:

- $9 \times 2 = 18$
- $90 \times 2 = 180$

## B LONG MULTIPLICATION BY ONE-DIGIT NUMBERS

### B.1 MULTIPLYING TWO-DIGIT NUMBERS BY ONE-DIGIT NUMBERS

**Ex 15:** On your paper, set up a column multiplication:

$$65 \times 2 = \boxed{130}$$

*Answer:*

$$\begin{array}{r} 65 \\ \times 2 \\ \hline 10 \\ + 120 \\ \hline 130 \end{array} \quad \begin{array}{l} 5 \times 2 = 10 \\ 60 \times 2 = 120 \\ 10 + 120 = 130 \end{array}$$

**Ex 16:** On your paper, set up a column multiplication:

$$72 \times 3 = \boxed{216}$$

*Answer:*

$$\begin{array}{r} 72 \\ \times 3 \\ \hline 6 \\ + 210 \\ \hline 216 \end{array} \quad \begin{array}{l} 2 \times 3 = 6 \\ 70 \times 3 = 210 \\ 6 + 210 = 216 \end{array}$$

**Ex 17:** On your paper, set up a column multiplication:

$$26 \times 4 = \boxed{104}$$

*Answer:*

$$\begin{array}{r} 26 \\ \times 4 \\ \hline 24 \\ + 80 \\ \hline 104 \end{array} \quad \begin{array}{l} 6 \times 4 = 24 \\ 20 \times 4 = 80 \\ 24 + 80 = 104 \end{array}$$

**Ex 18:** On your paper, set up a column multiplication:

$$76 \times 5 = \boxed{380}$$

*Answer:*

$$\begin{array}{r} 76 \\ \times 5 \\ \hline 30 \\ + 350 \\ \hline 380 \end{array} \quad \begin{array}{l} 6 \times 5 = 30 \\ 70 \times 5 = 350 \\ 30 + 350 = 380 \end{array}$$

**Ex 19:** On your paper, set up a column multiplication:

$$25 \times 6 = \boxed{150}$$

*Answer:*

$$\begin{array}{r} 25 \\ \times 6 \\ \hline 30 \\ + 120 \\ \hline 150 \end{array} \quad \begin{array}{l} 5 \times 6 = 30 \\ 20 \times 6 = 120 \\ 30 + 120 = 150 \end{array}$$

**Ex 20:** On your paper, set up a column multiplication:

$$29 \times 7 = \boxed{203}$$

*Answer:*

$$\begin{array}{r} 29 \\ \times 7 \\ \hline 63 \\ + 140 \\ \hline 203 \end{array} \quad \begin{array}{l} 9 \times 7 = 63 \\ 20 \times 7 = 140 \\ 63 + 140 = 203 \end{array}$$

**Ex 21:** On your paper, set up a column multiplication:

$$63 \times 8 = \boxed{504}$$

*Answer:*

$$\begin{array}{r} 63 \\ \times 8 \\ \hline 24 \\ + 480 \\ \hline 504 \end{array} \quad \begin{array}{l} 3 \times 8 = 24 \\ 60 \times 8 = 480 \\ 24 + 480 = 504 \end{array}$$

**Ex 22:** On your paper, set up a column multiplication:

$$51 \times 9 = \boxed{459}$$

*Answer:*

$$\begin{array}{r} 51 \\ \times 9 \\ \hline 9 \\ + 450 \\ \hline 459 \end{array} \quad \begin{array}{l} 1 \times 9 = 9 \\ 50 \times 9 = 450 \\ 9 + 450 = 459 \end{array}$$