

# MULTIPLYING 3-DIGIT NUMBERS

Without regrouping

EXAMPLE 1 Multiply 123 by 3.

Multiply the digit in the ones place.

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 1 \quad 2 \quad 3 \\ \times \quad \quad 3 \\ \hline 9 \end{array}$$

→

Multiply the digit in the tens place.

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 1 \quad 2 \quad 3 \\ \times \quad \quad 3 \\ \hline 6 \quad 9 \end{array}$$

→

Multiply the digit in the hundreds place.

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 1 \quad 2 \quad 3 \\ \times \quad \quad 3 \\ \hline 3 \quad 6 \quad 9 \end{array}$$

$3 \times 3 \text{ ones} = 9 \text{ ones}$

$3 \times 2 \text{ tens} = 6 \text{ tens}$

$3 \times 1 \text{ hundred} = 3 \text{ hundreds}$

😊 ANS. 369

ENRICHMENT ACTIVITY

Do in book and copy

CHECKPOINT I

Multiply.

1.  $\begin{array}{r} 101 \\ \times 9 \\ \hline 909 \end{array}$

2.  $\begin{array}{r} 313 \\ \times 3 \\ \hline 939 \end{array}$

3.  $\begin{array}{r} 111 \\ \times 8 \\ \hline 888 \end{array}$

4.  $\begin{array}{r} 234 \\ \times 2 \\ \hline 468 \end{array}$



ENRICHMENT ACTIVITY

Do in book & copy.

CHECKPOINT!

Multiply.

$$\begin{array}{r} 1. \quad 315 \\ \times \quad 3 \\ \hline 945 \end{array}$$

$$\begin{array}{r} 2. \quad 227 \\ \times \quad 3 \\ \hline 681 \end{array}$$

$$\begin{array}{r} 3. \quad 223 \\ \times \quad 4 \\ \hline 892 \end{array}$$

$$\begin{array}{r} 4. \quad 218 \\ \times \quad 4 \\ \hline 872 \end{array}$$

EXAMPLE 3 What is the product of 242 and 4?

$$\begin{array}{r} 242 \\ \times \quad 4 \\ \hline 8 \end{array}$$

→

$$\begin{array}{r} 1 \\ 242 \\ \times \quad 4 \\ \hline 68 \end{array}$$

→

$$\begin{array}{r} 1 \\ 242 \\ \times \quad 4 \\ \hline 968 \end{array}$$

$4 \times 2$  ones = 8 ones

$4 \times 4$  tens = 16 tens  
Regroup 16 tens into  
1 hundred and 6 tens.

$4 \times 2$  hundreds = 8 hundreds  
8 hundreds + 1 hundred  
(carried over from tens)  
= 9 hundreds

😊 ANS. 968

ENRICHMENT ACTIVITY

Do in book & copy.

CHECKPOINT!

Multiply.

$$\begin{array}{r} 1. \quad 151 \\ \times \quad 6 \\ \hline 906 \end{array}$$

$$\begin{array}{r} 2. \quad 283 \\ \times \quad 3 \\ \hline 849 \end{array}$$

$$\begin{array}{r} 3. \quad 384 \\ \times \quad 2 \\ \hline 768 \end{array}$$

$$\begin{array}{r} 4. \quad 264 \\ \times \quad 4 \\ \hline 1056 \end{array}$$

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## MENTAL MATHS

### ENRICHMENT ACTIVITY

#### Quick multiplication

$$343 \times 2 = 686$$

$$211 \times 5 = 1055$$

1.  $410 \times 2 = \underline{820}$

3.  $202 \times 4 = \underline{808}$

5.  $211 \times 6 = \underline{1266}$

2.  $223 \times 3 = \underline{669}$

4.  $244 \times 2 = \underline{488}$

6.  $233 \times 3 = \underline{699}$

