

## Using Paper and Pencil

### Example 1

$$621 \times 32 =$$

#### Explanation

**Step 1:** Line up the place values.

$$\begin{array}{r} 621 \\ \times 32 \\ \hline \end{array}$$

**Step 2:** To calculate the **first partial product**: Multiply  $621 \times 2 = 1242$ .

$$\begin{array}{r} 621 \\ \times 32 \\ \hline 1242 \end{array}$$

Start the first partial product at the ones' place.

**Step 3:** To calculate the **second partial product**: Multiply  $621 \times 3 = 1863$ .

$$\begin{array}{r} 621 \\ \times 32 \\ \hline 1242 \\ 18630 \end{array}$$

Start the second partial product at the tens' place.

Write a place holding 0 at the ones place.

**Step 4:** Add the partial products.

$$\begin{array}{r} 621 \\ \times 32 \\ \hline 1242 \\ + 18630 \\ \hline 19872 \end{array}$$

Therefore  $621 \times 32 = 19872$ .

When multiplying numbers that end with zero(s), remove the zero (0) and multiply. Then place the zero(s) back to the product.

## Example 2

Find the product.  $208 \times 40 =$

### Explanation

$$\begin{array}{r} 208 \\ \times 40 \\ \hline 8320 \end{array}$$

← Place 0 back to the product.

Therefore  $208 \times 40 = 8320$ .