

Multiples of 10 and 100

You can use basic facts and patterns to multiply multiples of 10 and 100.

Use a basic fact and patterns to find each product.

$$\begin{aligned} 8 \times 5 &= \underline{\quad\quad} \\ 80 \times 5 &= \underline{\quad\quad} \\ 800 \times 5 &= \underline{\quad\quad} \end{aligned}$$

Find the basic fact 8×5 : 8

$$\begin{array}{r} \times 5 \\ \hline 40 \end{array}$$

Adding a zero to a factor will add a zero to the product :

$$\begin{array}{r} 80 \\ \times 5 \\ \hline 400 \end{array}$$

Adding two zeros to a factor will add two zeros to the product :

$$\begin{array}{r} \times 5 \\ \hline 4,000 \end{array}$$

So, $8 \times 5 = 40$; $80 \times 5 = 400$; and $800 \times 5 = 4,000$.

Examples:

A- Use a basic fact and pattern to find each product.

1) $7 \times 3 = \underline{21}$

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

$700 \times 3 = \underline{2,100}$

2) $2 \times 6 = \underline{12}$

$2 \times 60 = \underline{120}$

$2 \times 600 = \underline{1,200}$

3) $9 \times 9 = \underline{81}$

$9 \times 90 = \underline{810}$

$9 \times 900 = \underline{8,100}$

B- Find the product.

4) $60 \times 8 = \underline{480}$

5) $30 \times 8 = \underline{240}$

6) $\underline{70} = 1 \times 70$

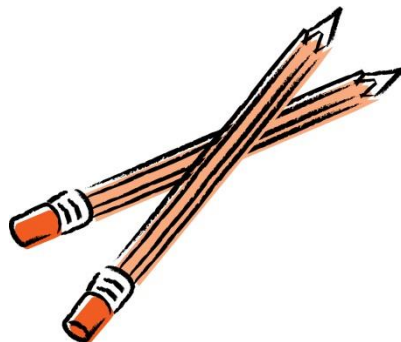
7) $5 \times 400 = \underline{200}$

8) $\underline{560} = 7 \times 80$

9) $\underline{2,700} = 900 \times 3$

My Real Life

One box of pencils holds 100 pencils. How many pencils do 4 boxes hold?



$$\underline{4 \times 100 = 400 \text{ pencils}}$$