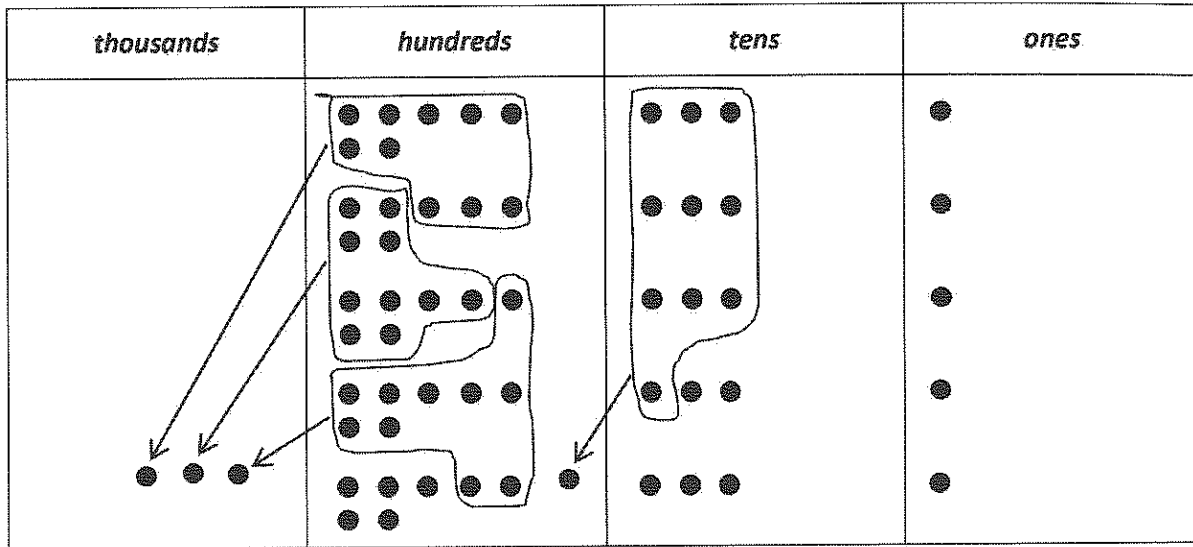


G4-M3-Lesson 8

Represent the following with disks, using either method shown in class, regrouping as necessary. Below the place value chart, record the partial product vertically.

1. 5×731



$5 \times 7 \text{ hundreds} + 5 \times 3 \text{ tens} + 5 \times 1 \text{ one}$

$3 \text{ thousands} + 6 \text{ hundreds} + 5 \text{ tens} + 5 \text{ ones} = 3,655$

When there are 10 units in any place, I compose a larger unit.

$$\begin{array}{r}
 731 \\
 \times 5 \\
 \hline
 3655
 \end{array}$$

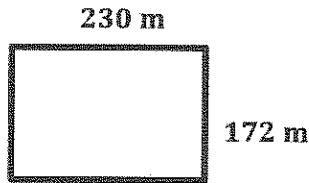
$5 \rightarrow 5 \times 1 \text{ one}$

$150 \rightarrow 5 \times 3 \text{ tens}$

$+ 3,500 \rightarrow 5 \times 7 \text{ hundreds}$

The partial products mirror the disks on the place value chart. I draw and record the total value of each unit.

2. Janice rides her bike around the block. The block is rectangular with a width of 172 m and a length of 230 m.
- a. Determine how many meters Janice rides if she goes around the block one time.



$$\begin{array}{r}
 172 \\
 + 230 \\
 \hline
 402
 \end{array}
 \qquad
 \begin{array}{r}
 402 \\
 \times 2 \\
 \hline
 804
 \end{array}$$

$4 \rightarrow 2 \times 2 \text{ ones}$
 $0 \rightarrow 2 \times 0 \text{ tens}$
 $+ 800 \rightarrow 2 \times 4 \text{ hundreds}$

$$P = 2 \times (l + w)$$

$$P = 2 \times 402$$

$$P = 804$$

One lap is 804 meters.

- b. Determine how many meters Janice rides if she goes around the block three times.

$$\begin{array}{r}
 804 \\
 \times 3 \\
 \hline
 2412
 \end{array}$$

$12 \rightarrow 3 \times 4 \text{ ones}$
 $0 \rightarrow 3 \times 0 \text{ tens}$
 $+ 2,400 \rightarrow 3 \times 8 \text{ hundreds}$

Janice rides 2,412 meters.