

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Represent the following expressions with disks, regrouping as necessary, writing a matching expression, and recording the partial products vertically as shown below.

a.  $2 \times 424$

hundreds	tens	ones
● ● ● ●	● ●	● ● ● ●

$$\begin{array}{r}
 4 \quad 2 \quad 4 \\
 \times \quad \quad 2 \\
 \hline
 \end{array}$$

→  $2 \times$  \_\_\_ ones  
→  $2 \times$  \_\_\_  
→ \_\_\_  $\times$  \_\_\_

$2 \times$  \_\_\_ +  $2 \times$  \_\_\_ +  $2 \times$  \_\_\_ ones

b.  $3 \times 424$

hundreds	tens	ones

c.  $4 \times 1,424$

2. Represent the following expressions with disks, using either method shown in the class, regrouping as necessary. To the right, record the partial products vertically.

a.  $2 \times 617$

b.  $5 \times 642$

c.  $3 \times 3,034$

3. Every day, Penelope jogs three laps around the playground to keep in shape. The playground is rectangular with a width of 163 meters and a length of 320 meters.

- a. Find the total amount of meters in one lap.
- b. Determine how many meters Penelope jogs in three laps.