

Name: _____

Date: _____

Bicycle Multiplication Area Models

Cycle your way to the finish line!



Use the multiplication area model strategy to help find the answer.

Example: Sarah biked 347 inches per second for 28 seconds. Amy biked 350 inches per second in 28 seconds. How many more inches did Amy bike after 28 seconds?

AREA MODEL

	300	40	7
20	6000	800	140
8	2400	320	56

$$6000 + 2400 + 800 + 320 + 140 + 56 = 9716$$

AREA MODEL

	300	50	0
20	6000	1000	0
8	2400	400	0

$$6000 + 2400 + 1000 + 400 + 0 + 0 = 9800$$

$$\begin{array}{r} 9800 \\ - 9716 \\ \hline 84 \end{array}$$

1. Lexi biked 401 inches per second for 23 seconds. Rochelle biked 397 inches per second for 23 seconds. What's the difference between their distances after 23 seconds?

$$\begin{array}{r} \\ - \\ \hline \end{array}$$

2. Chandler biked 286 inches per second for 19 seconds. Jeff biked 279 inches per second for 19 seconds. What's the difference between their distances after 19 seconds?

$$\begin{array}{r} \\ - \\ \hline \end{array}$$

3. Lori biked 451 inches per second for 34 seconds. Patricia biked 432 inches per second for 34 seconds. What's the difference between their distances after 34 seconds?

$$\begin{array}{r} \\ - \\ \hline \end{array}$$