

Name _____

Racetrack Multiplication Area Models Answer Key

1. **Alex vs. Jordan** - Alex drives **312 meters per second** for **26 seconds**.

Jordan drives **298 meters per second** for **26 seconds**. Who drives farther, and by how much?

	300	10	2
20	6000	200	40
6	1800	60	12

$$6,000 + 1,800 + 200 + 60 + 40 + 12 = 8,112$$

	200	90	8
20	4000	1800	40
6	1200	540	12

$$4,000 + 1,200 + 1,800 + 540 + 160 + 48 = 7,748$$

$$\begin{array}{r} 8112 \\ - 7748 \\ \hline 364 \text{ m} \end{array}$$

2. **Riley vs. Sam** - Riley drives **437 meters per second** for **34 seconds**.

Sam drives **425 meters per second** for **34 seconds**. Who drives farther, and by how much?

	400	30	7
30	12000	900	210
4	1600	120	28

$$12,000 + 1,600 + 900 + 120 + 210 + 28 = 14,858$$

	400	20	5
30	12000	600	150
4	1600	80	20

$$12,000 + 1,600 + 600 + 80 + 150 + 20 = 14,450$$

$$\begin{array}{r} 14858 \\ - 14450 \\ \hline 408 \text{ m} \end{array}$$

3. **Taylor vs. Casey** - Taylor drives **254 meters per second** for **23 seconds**.

Casey drives **268 meters per second** for **23 seconds**. Who drives farther, and by how much?

	200	50	4
20	4000	1000	80
3	600	150	12

$$4,000 + 600 + 1,000 + 150 + 80 + 12 = 5,842$$

	200	60	8
20	4000	1200	160
3	600	180	24

$$4,000 + 600 + 1,200 + 180 + 160 + 24 = 6,164$$

$$\begin{array}{r} 5842 \\ - 6164 \\ \hline 322 \text{ m} \end{array}$$