

Preparing for a Marathon

Alejandro and his friend Ryan run a 9 mile square track every day.

- What is the perimeter of the track?
- How many miles do they run together?
- If their exercise room is in the middle of the track, what is the distance between the exercise room and the edge of the track?
- At what point Alejandro would catch up with Ryan if Ryan is ahead of Alejandro by $\frac{1}{3}$ of a mile and both are running at the same speed?

