

**Standard(s) of Learning**

- 7.4 The student will solve single-step and multistep practical problems, using proportional reasoning.
- 8.3 The student will
- a) solve practical problems involving rational numbers, percents, ratios, and proportions.

**Training for a Run**

Jenna is training for the women's four miler race in Charlottesville. She runs on a trail located in her neighborhood. According to her map, the trail is 11 inches long. The key shows that for every 1.25 inches of trail on the map, she will run  $\frac{1}{4}$  of a mile. The beginning and end of the trail do not connect. A lap will require Jenna to run to the end of the trail, turnaround, and run back to the beginning.



If she wants to run exactly 4 miles, how many laps will she need to complete? If it is more than a lap, explain exactly how much more it is. If it is less than a lap, explain exactly what part of a lap it is. Carefully explain your reasoning and show all your work.