

Applications Of Mathematics

➤ APPLICATIONS:

1. If a runner ran one lap of the track in the second lane, how far did she / he run?

Solution:

You might think that the answer is 400 meters, since it is a 400 meter track. Both straight-aways are 100 meters but as you go further out from the inside rail on the semicircular turns, you run farther. To calculate the distance around the turns, we use the formula for the circumference (C) of a circle with radius (r): $C = 2\pi r$ since the two semicircles on the inside rail form a circle with a circumference of 200 m, we can find the radius of the inside rail semicircles.

$$C = 2\pi r \Rightarrow 200 = 2\pi r$$

$$r \approx 31.83$$

Now when you run in the second lane, the semicircle turns have a radius that is one meter longer or 32.83 m Thus, distance around both turns in the second lane is:

$$C = 2\pi r = 2\pi(32.83) \approx 206.2 \text{ m}$$

Thus, a lap in the second lane has a total distance of 406.2 m, 200 meters for the straight-aways plus 206.2 m for the turns.



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