What is the <u>distance traveled</u> by the worm as he makes one complete trip around the track? Round your answer to two decimal places.





distance = $2\pi r$ distance = (2) × (π) × (30 m) distance = 188.50 m

radius = 30 meters What is the total <u>displacement</u> of the worm as he makes one complete trip around the track? Round your answer to two decimal places.







displacement = 0 meters because the worm starts and stops in the same place.

radius = 30 meters

What is the <u>distance traveled</u> by the dog as he moves from his initial position to his final position?





6 m + 4 m = 10 m



What is the <u>displacement</u> of the dog as he moves from his initial position to his final position? Round your answer to two decimal places. *Hint: the displacement is the yellow arrow shown in the image below.*



