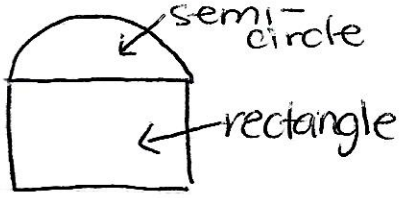
8.2 Perimeters of Composite Figures

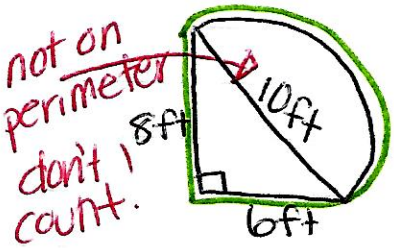
EQ: How can you find the perimeter of a composite figure?

Composite Figure: A figure made up of multiple shapes.

EX:



Example 1: Finding the perimeter



[Perimeter of the Triangle] + [Perimeter of the semi-circle]

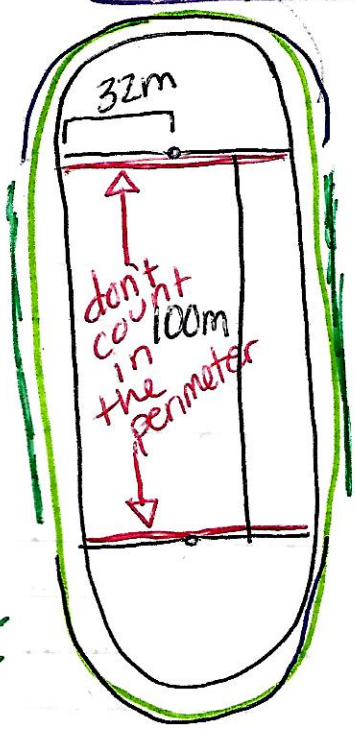
$[8+6] + C = \frac{\pi(10)}{2}$

$14 + 5\pi$

$14 + 15.7$

$P = 29.7$ ft

Example 2: Find the perimeter of the track.



semi-circle + semi-circle + rectangle

= whole circle

circle + rectangle

$C = 2\pi(32)$

$64\pi + 100 + 100$

$64\pi + 200$

$200.96 + 200$

$= 400.96$ m