Quiz 8

Name: **Perm Number**:

In the following two problems, the function $h(t) = 40t - 5t^2$ describes the height (in meters) of a ball above the ground at t seconds.

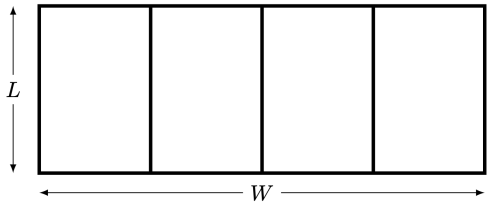
Interpret the following information in words by filling in the blank with **one word** that completes the sentence:

$$h'(2) = 20 \qquad h(1) = 35$$

1) 20 is the _____ of the ball at 2 seconds.

2) 35 is the _____ of the ball at 1 seconds.

3) A rectangular field is surrounded by a fence. The fence is divided into 4 equal parts by 3 more dividing fences all parallel to one side of the field. The field must have an area of 1000 m^2. Write the perimeter as an expression **using only L.**



$P =$ _____