**The Hexagon Pattern Task**

For the pattern shown below, compute the perimeter for the first four trains.

Then, determine the perimeter for the 10th train without constructing it.

Find the perimeter for the 100th train without constructing it.

Write a description that could be used to compute the perimeter of any train in the pattern.

 [Assume for each of these problems that the edge of each regular hexagon has a length of one unit.]

[This task was adapted from Stein, Smith, Henningsen, & Silver’s (2009) *Implementing standards-based mathematics instruction* (p. 139).]