**The Square Vertices Task**

How many vertices are there in Figure 1?

 Figure 2?

 Figure 3?

 Figure 4?

 Figure 10?

 Figure 100?

 How many vertices would there be in a figure with n squares?

Figure 1 Figure 2 Figure 3 Figure 4

[This problem was adapted from Blanton, M. L. (2008)’s *Algebra and the elementary classroom: Transforming thinking, transforming practice*, p. 181]