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Part I: List all the ”attendance questions” during the lecture, followed by your answers.

Question 1: Who was Kurt Gödel

Answer: A famous mathematician of the 20^{th} century who worked at the Institute for Advanced Study

Question 2: What age was Carl Gauss when he came up with his formula?

Answer: In primary school

Question 3: Represent 54*57 in positional notation

Answer: 54*57 = (5*10 + 4*1)*(5*10+7*1) = 3*1000 + 0*100 + 7*10 + 8*1

Part II:

1. (a) Express the number one hundred eighty two (in our usual, base ten, notation) in terms of powers of 5.

182 = 125 + 2*25 + 1*5 + 2*1

= 1*5^3 + 2*5^2 + 1*5^1 + 2*5^0