Choose three problems only from these five.

1. (5-8 points) How many solutions to $w + x + y + z = 20$ are there, where $w, x, y, z$ are positive integers?

2. (5-10 points) How many four-digit positive integers have all four digits different?

3. (5-10 points) How many four-digit positive integers have the sum of their digits at most 33?

4. (5-10 points) How many four-digit positive integers contain the digit 9 and are divisible by 3?

5. (5-12 points) How many surjective functions are there from [6] to [5]?