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SOLUTION 1 (22 students received AT LEAST one A)

14+18 A s have been assigned to 22 students. No one of these students may have received no A or more than two A s. Consequently 14+18-22 students received two A s. The final result is 10.

SOLUTION 2 (22 students received EXACTLY one A)

14+18 A s have been assigned to a certain number of students. 22 of them got one A , then 14+18-22 A s have been assigned to other students. As those other students can have received only zero or two A s, then $(14+18-22)/2$ students received two A s. The final result is 5.