1. In a class of 7 juniors, 12 sophomores, and 2 freshmen, three random students each get a cookie. Calculate the probability of each of the following without reducing or using decimals. Show all work as equations, and include $P(\ )$ notation in each equation.

a) Juniors get all three cookies.

b) Juniors get the first two cookies, and a freshman gets the last one.

c) All three cookies go to the same grade level.

d) One person from each grade level gets a cookie.

e) The first two cookies go to two different grade levels.

f) Neither freshman gets a cookie.