1.

P (2 yes votes) = (6 2) x (0.551)2 x (0.449)4 = 18.5%

2.

The Standard Deviation is 6.6 and mean is 23. The scores for the respective students at 1 SD are

-0.45, -1.21, 0.45, 1.36, -0.76, 0.76, 1.82, -1.36, 0.45, -0.15, -0.91

Answer – 2 students fail, the ones who scored 15 and 14.