

## S5E-52A

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1. (a) Mean = 80  
Standard deviation = 8.81  
(b) Standard score for 76 =  $-0.454$   
Standard score for 74 =  $-0.681$   
Standard score for 75 =  $-0.567$   
Standard score for 97 = 1.93  
Standard score for 72 =  $-0.908$   
Standard score for 86 = 0.681
2.  $7\sigma$
3. (a) 2925 candidates  
(b) 2520 candidates; 48.9
4. (a) 0.465  
(b) 61.5
5. (a) Range = 5 ; IQR = 3  
(b) Standard deviation = 1.74  
(c) Range = 5 ; IQR = 3
6. (a) 40  
(b) Mean = 38.55  
Standard deviation = 2.24  
(c) Mean = \$15420  
Standard deviation = \$894
7. (a) 53  
(b) 27
8. (a) 15  
(b) 504  
(c) 489
9. (a) 59.8  
(b) Biology: 1.71  
Liberal Studies: 0.259  
(c) Biology
10. (a) (i) 97.35%  
(ii) 84%  
(b) 275
11. (a) Range = \$7300 ; IQR = \$5700  
(b) Mean = \$5800  
Standard deviation = \$2547  
(c) (i) Mean = \$5789  
Standard deviation = \$2228  
(ii) Mean = \$5833  
Standard deviation = \$2473

M.C.

1. D
2. A
3. B
4. A