

#29-32 EOC

29 Without Delaware With Delaware

mean = 31.375
 range = 53
 IQ range = 44
 Standard Dev. = 23.7

mean = 28.1
 range = 57
 IQ range = 46.5
 Standard Dev. = 24.2

(D) Standard deviation increases.

30 Juniors Music .10 + movies .06 + Sports .08 = .24 x 3500 = 840
 Seniors .08 + .09 + .10 = .27 x 3500 = 945

How many more seniors than juniors?

$$\begin{array}{r} 945 \\ - 840 \\ \hline 105 \end{array}$$
 (B)

31 Fiction
 .32
 + .38
 Total .70 x 200 = 140 members (D)

32 Minutes x (25) (50) 75 100
 Distance y (20) (40) 60 80

$(25, 20)$ $(50, 40)$ d $\frac{40-20}{50-25} = \frac{20 \text{ miles}}{25 \text{ min.}}$
 x_1, y_1, x_2, y_2 m reduce

(C) $\frac{4}{5}$ miles
 5 minutes.