e) Since the reserchers would not be able to control many of the variables it would be difficult to determine why the weight would not be will loss occuredi Problem 37 a) Experiment phuse 6) It is a controlled experiment c) The number of MS attacks d) consumption of bovine myeling e) Group recieving the bovine myelin. problem 43 Turome could be a major confounding variable. People with higher income use yoing to more likely have the money to invest to begin with, section 2.3 problem 19 a) interval and ruti 0 6) Nominal d) interval and rutio c) Ord: mul

Problem 22
$$[-\frac{1}{k^2}, \text{ for } k7]$$

 $1.75 = 1 - \frac{1}{k^2}$
 $-2.5 = -\frac{1}{k^2}$
 $2.5 = \frac{1}{k^2}$
 $1.25 = \frac{1}{k^2}$
 $1.25 = \frac{1}{k^2}$
 $1.25 = \frac{1}{k^2}$
Problem 24
(1) \$(4500 ± 3(750) = 4500 ± 1500 (2000) 6000)
(2) 4500 ± 3(750) = 4500 ± 2250 (2250,6750)
(3) We are assuming normal distribution

$$Z = \frac{x - x}{S} \qquad \overline{x} = 64 \qquad 5 = 21$$

$$Problem 14$$

$$Q. \quad x = 80 \Rightarrow \underline{80} = 64 = .762 \Rightarrow 460 \text{ mean}$$

$$D) \quad x = 64 \Rightarrow 64 - 64 = .0 \Rightarrow 64 \text{ is the mean}$$

$$C) \quad 40 - 64 = .1.143 \Rightarrow 40 \text{ is below the mean}$$

$$C) \quad 40 - 64 = .1.143 \Rightarrow 40 \text{ is below the mean}$$

$$Section \quad 5.1$$

$$Q. \quad 2A, B, (DZ)$$

$$Q) \quad 2A, B, (DZ)$$

$$Q) \quad L = \{A\} \quad M = \{B, C, D\}$$

$$Prob 26 \quad P(x = k) = \frac{1}{50} \quad x = 46$$

$$P(x = 4k) \quad 4k = 0$$

$$P(x =$$

C) 2/4 = 1/2 = .5

prob 7

a). Yes

b) No, a probability cannot be greater than (.

c) Yes

d) No, a probability cannot be less than zero

e) Yes.

prob (3)

a)
$$\frac{200 + 50 + 10 + 10}{(000)} = \frac{270}{(000)} = .27 = 9$$

b) $\frac{20 + 10 + 125 + 25}{(000)} = \frac{80}{(000)} = .08 = 9$

c) $\frac{20 + 10 + 15 + 15 + 25 + 30 + 50 = .65}{(000)} = 9 = .165$

d) $\frac{400}{(000)} = .9$

e) $\frac{400}{(000)} = .9$

(90 - .47 1-.49 - .51

$$\begin{array}{c|cccc}
 & 196 \\
 & 42 & 92 & = 1319 \\
\hline
 & 288 & 288 \\
\hline
 & 92 & = 1319 \\
\hline
 & 265 & = 1347
\end{array}$$

f. 400+50+20+20

$$\frac{92}{265} = ,347$$

$$(2) 298 + (73 = 47)$$

$$298 + 173 = 471$$

$$298 = 633$$

$$471$$

248/42.603

d) 196 + 298 = 494

$$\rho_{006} S$$
 $0. \frac{.6}{.7} = .85) = \rho(A|E)$
 $0. \frac{.6}{.7} = .85 = .143$

Section 5.6

$$P(A)P(B) = (.01) \cdot (.01) = .0001$$

P(E)=.7