1) Probability of two dice being even and one being b Sample space is 36 Davind outcomes = (2,6) (4,6) (6,6) (6,2) (6,4) (6,6) P(Even Sum of Athart one 6) = 6/36 = 1/6/ = 2) Sum of number < 7 Sample Space = 36 Derived outcome = (1,1) (1,2) (1,3) (1,4) (1,5) (2,1) (2,2)(2,3)(2,4)(3,1) (3,2)(3,3)(4,1) (4,2) (5,1) P(Sum < T) = 15/36 = 5/2

P(R')  $\frac{1}{2}$   $\frac{1}{2$ P(R'TL') = 1/3 x 1/2 x 3/4 = 3/4 = 1/8 P(L) = (1/3 ×1/2 ×1/2) + (1/3 × 1/2 × 1/4) + (2/3×1/4×1/4) + (2/3 × 3/4) × //8) = /12 + /24 + /4812 /96 = 1/2+1/24 + 1/24 + 1/6 = = = = + 1/2 + 1/6 = 0.2291 ~ 231/.

$$P(R|L) = P(L|R) **P(R) = P(L)R$$

$$= \frac{(1/3) \times 1/2 \times 1/4}{0.2291} = \frac{1}{0.2291} = \frac{3}{0.2291} = 0.5456 = 55\%$$

$$P(T)$$
A)  $V_{3} - P(C1) = V_{2} - P(H)$ 

$$V_{3} - P(C1) = V_{3} \times V_{2} + (V_{3} \times V_{2}) + (V_{3} \times$$

b) 
$$P(FC|H) = \frac{P(H|FC) \times P(FC)}{P(H)}$$

$$\frac{=P(H)FC)}{P(H)} = \frac{\frac{1}{3}x1}{\frac{2}{3}} = \frac{\frac{1}{3}}{\frac{2}{3}}$$

$$p(e|cx) = \frac{p(cx|c) \times p(c)}{p(cx)} = \frac{20\%}{40\%} = \frac{50\%}{40\%}$$

$$S = \frac{6}{\sqrt{n}} = \frac{6}{\sqrt{16}} = \frac{6}{4} = \frac{3}{2} = 1.5$$

$$S = \frac{6}{\sqrt{20}} = 1.341$$

$$Z = \frac{x-y}{\sqrt{12}} = \frac{110-100}{12} = \frac{10}{12} = 0.833$$

$$Z = \frac{105 - 100}{12} = \frac{5 \times 5}{12} = 2.0833$$

$$\frac{12}{\sqrt{25}}$$

$$Z = \frac{105-100}{12} = \frac{5}{12} = \frac{5 \times 8}{12} = 3.333$$

d) 
$$Z_1 = \frac{105 - 100}{12}$$
  $Z_3 = \frac{95 - 100}{12}$ 

$$Z_1 = 1.666$$
  $Z_2 = -1.666$ 

$$P_1 = 0.9515$$
  $P_2 = 0.0485$ 

$$M = \frac{10}{2.8}$$

$$= \frac{10}{2.8}$$

$$= \frac{14.222}{14.22}$$

$$= \frac{14.222}{1645} = \frac{2.8}{19}$$

$$= \frac{14.222 \pm 1.645}{1645} = \frac{2.8}{3}$$

= 14.222 + 1.5353

=12.686 to 15.757

11) 
$$\frac{5\%}{\sqrt{6}} \frac{1}{8}$$
,  $\frac{5\%}{\sqrt{6}} \frac{1}{8}$ ,  $\frac{5\%}{\sqrt{6}} \frac{1}{\sqrt{6}}$ ,  $\frac{5\%}{\sqrt{6}} \frac{1}{8}$ ,  $\frac{5\%}{\sqrt{6}} \frac{1}{\sqrt{6}}$ ,  $\frac{5\%}{\sqrt{6}} \frac{1}{8}$ ,  $\frac{5\%}{\sqrt{6}} \frac{1}{\sqrt{6}}$ ,  $\frac{5\%}{\sqrt{6}} \frac{1}{8}$ ,  $\frac{5\%}{\sqrt{6}} \frac{1}{\sqrt{6}}$ ,  $\frac{5\%}{\sqrt{6}} \frac{1}{8}$ ,  $\frac{5\%$ 

$$\frac{12}{\sqrt{6} \cdot 3} = \frac{1}{\sqrt{5} \cdot 5},$$

$$\frac{1}{\sqrt{5} \cdot 5},$$

$$P(S|S,) = P(S,|S) \times P(S)$$

$$= \frac{1}{\sqrt{5} \cdot 5},$$

$$= \frac$$