Homework

9.1 + 9.2

1.) a.) {(HHHH), (HHTH), (HTHH), (HTTH)} (集) or (書)

b.) {(HHT)(HHH)(HHT)(HHH)(THHH)(THH) (電) (音) 士

C.) {(THHH)(TTHH)(THHT)} (3)

2.) a.) -

b.) ++

C.) 1/2

4.) a,) 15

b.) 43 = 2 15

(3) (3) (3) (4) (4)

1.) a.) 1-1

6.) 希

C.) n-n

Herework



9.3

$$|P(A) = \frac{16}{36} = \frac{1}{2}$$

$$P(B) = \frac{2}{36} = \frac{2}{9}$$

$$P(C) = \frac{1}{6}$$

(.)
$$(\frac{7}{64} \cdot \frac{1}{8}) \div \frac{1}{8} = \frac{7}{64}$$
 $\frac{7}{64} \div \frac{64}{64} = \frac{64}{64} = \frac{1}{64}$

This shows p(ENF)=p(f)-p(f). Complements.
Independent

Honework

9.3+9.4+9.5

6.) ai) (1/3)10

b.) (1/3)5(2/3)5

1.) a.) {(1,2,3,4,5,6,8,10,129,15,16,18,20,24,25,30,36}

2.) a.) \$398 898 9 (Ace-Spades, Hearts, Diamonds, Clubs)

b.) 4/52

Honework

9.5+9.6

3.) a.) (1,2,3,4,5,6,7)

b.) 2 Girls are picked 1/15 To O Girls are picked 3/15

5.) a.) \$1598 \\ \(\(\lambda \), \

9.6

1.) a.) $E(G) = 2 \cdot (pR = 2) + 1 \cdot p(R = 1) + 0 \cdot p(R = 0)$ 2. $\frac{1}{15} + \frac{1}{15} + 0$ 14/15 + $\frac{7}{15} = \frac{21}{15}$

2.) 2.(1/6) + 1.(1/6) + (-1).(4/6) 2/6+1/6-1/6=>-1/60-\$-0.168

4.) a.) $(6 \cdot (1/6) + 5 \cdot (1/6) + 4 \cdot (1/6) + 3 \cdot (1/6) + 2 \cdot (1/6) + 1 \cdot (1/$

b.) 233- ($\frac{1}{8}$) + 2. ($\frac{3}{8}$) + 1. ($\frac{3}{8}$) $\frac{3}{8} + \frac{6}{8} + \frac{3}{8} = \frac{12}{8}$

Homework

9.7+9.8

2.) E(F) = 5. (p(E)) => 5. (7/40) => 35/40=> 7/8

4.) Casc=1 E[F] = 1. (1/10) =7 1/10

(.) a.) (/100)·(1/100) = 1/10000

b.) (100) · (100)

C.) | Since it is 1% of 100.

d.) 1/50, increases odds of good board since there are only 50 chances instead of 100.

3.) a.) This means coin is fair, but number of heads is less than 4.
Which means 3/18.

b.) coin is the biased, number of heads is at least 4. = 0.3. %10 = 0.18