Probability Assignment

1. P(Sum of nos should be even A on of die shows 6)=?Possible events = (2,6), (4,6), (6,4), (6,2)Total possible outromes = 36Required probab = 4/36 = 1/9

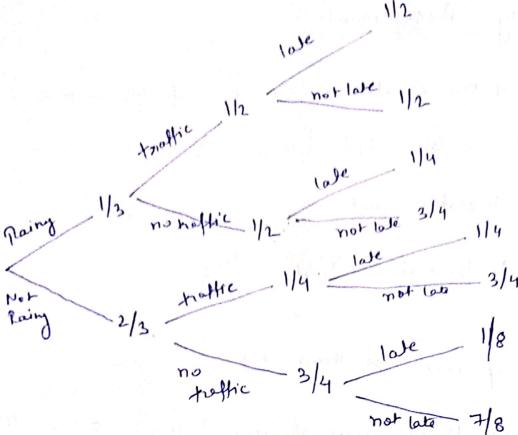
2. P(Sum of not less than 7) = ?

Possible events of sum of not being 7 or greater than

(3,4), (4,3), (3,5), (5,3), (3,6), (6,3), (4,5), (6,4), (6,6), (6,6), (6,6)

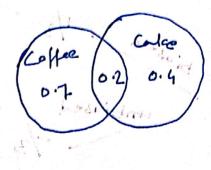
P (Sum of nos greater than equal to 7) = 11/36P (Sum of nos less than 7) = $1-\frac{11}{36} = \frac{25}{36}$

B.



P(not raining and heavy traffic and not late) =?
$$= \frac{2}{3} \times \frac{1}{42} \times \frac{3}{4} = \frac{1}{8}$$

$$P(lote) = \frac{1}{12} + \frac{1}{24} + \frac{1}{16} = \frac{11}{48}$$



Trush 5/4 Probabal white ball 1/9

Actual probeb of white ball drawn = 5x1

Trush 4/5 Probab of 6 1/6

Actual probab of 6 的各处 3. Fair coin is tossed 3 times P(at least 2 hands) at least 1 head) = ? P(at least one hereal) = 1-1 (when TTT is there) 1) = 3 dollar franch Adres probably to while build absume I it is Il it dedoct who wherein 3/1 - 1/2 de de la destara de la destara la destará.

ST + X = PEXP

(Hill) mean dr

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d = mailway

1. (a) Mean of 9,7,11,13,2,4,5,5

Mean = Sum of all mos elements No. of elements

= 56 = 2

(b) 2.2, 10.2, 14.7, 5.9, 4.9, 11.1, 10.5

Mean = $\frac{59.5}{1}$ = 8.5

(c) 1/4, 2/12, 51/2, 31/4, 21/2 5/4, 5/4, 11/2, 13/4, 5/2 Mean = 22 11 = 2.2

Upt = [] . E - x . A PE - x . La 2.

first = 0

second = 1

if i s1: next = x

next = first + second first = second else second = next

bist. append (next)

np. mean (list)

Output

First 5 prime nos ore 2,3,5,7, 11,23
Mean = 28

de a la fer in the standard of

Hearn = 59.5. = 3.6

sh shi ne 12/2.

worked a few formers a ready

Englander James 14

Mean = 28

Median = 5

Mean of 8, 11, 6, 14, 2 , 1.3. = 661

x=?

8+11+6+14+21+13=66

 $52 + \alpha = 66 \times 6$ $52 + \alpha = 396 \Rightarrow \alpha = 344$ in at a

house a first second

Anna Maria

1 = 6-0001

(a) the iii i saf

$$\frac{6+8+x+2+10+2x-1+2}{6} = 9$$

$$= > 3x + 27 = 54 \Rightarrow x = \frac{249}{3} = 9$$

Value of observation 1/2
6,8,11,10,17,2

6. (a) Mean =
$$(12x5) + (10x3) + (15x2) + (14x6) + (8x4)$$

(b) Mean =
$$(25\times8) + \frac{30\times12}{30\times12} + (15\times10) + (20\times6) + (24\times4)$$

- 7. (a) Mode = 8
 - (b) 17
 - (C) 3
 - (d) None
- 8. 17, 24, 24, 247, 35, 36, 46 has median 25 80, 2+7=25, 2=18

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- 9. If nos in above case were not in ascending order, possible values of 2 could be 18 or 25
- 10. Mean can be used to find central tendency of data except in case 'd'

 (Mode can be used in case (d) to find

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 common far color of class.