Buobability (21. Perop of getting fur sum of no being even Events can be = (41), (1,3), (1,5), (2,2), (2,4), (2,6), (3,1) (3,3), (3,5), (4,4), (4,2), (4,6), (5,1) (5,3), (5,5), (6,2), (6,4), (6,6) = 18 P= 18/36 = 1/2 one of the dice shows sin = 6/36 = 1/6/ Perop. less than for sum of no. less than 7 $=\frac{8}{36}=\frac{1}{4}$ H/T H/T H/T 0.3. HHH A = at beest 2 heads HHT B= at least I head HTHV THHY PE atlent 2 hed/atleas 1 head) TTT TTH P(AlB) = P(AnB) THT HHTV = P(247 1H) P(1 H) $=\frac{P(2H)}{P(1H)} \Rightarrow \frac{418}{718} = \frac{4}{718}$

Possible of best hadds
$$= (G, G_1), (B, B_1), (G_1, B_2), (B, G_1)$$

$$P = (BOH G_1) \text{ one } g_1M) = P\left(\frac{BOH G_2}{P(G_1)}\right)$$

$$Po (BG_1) = (-5)\times(-5) = -25$$

$$Po (G_2G_1) = 1 - (AD_2G_2G_1).$$

$$P(Hogor) = P(B_1B_2) = -5 \times 5 = -25$$

$$P(G_1G_1) = 1 - -25 = -175$$

$$P(B_2G_1) \text{ one } g_1M) = -125 = -13$$

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$$P(B_2G_1) \text{ one } g_2M) = -125 = -125$$

$$P(B_2G_1) \text{ one } g_2M) = -125 = -$$

(a)
$$P(NRTNL) = P(NR) P(TIMR) P(NL|NRNT)$$

$$= \frac{2}{3} \times \frac{1}{4} \times \frac{3}{4} = \frac{1}{8}$$
(b) Total of late = $P(L) = P(RTL) + P(RNTL) + P(NRTL) + P(NRNTL)$

$$= \frac{1}{12} + \frac{1}{24} + \frac{1}{16} = \frac{1}{148}$$
(c) Late + Rain = $P(RIL) = P(RNL)$

$$= P(RNL) = P(RNTL)$$

$$= \frac{1}{12} + \frac{1}{148}$$

$$= \frac{1}{148}$$