$$p(red \text{ or blue}) = \frac{54+75}{54+75+9} = \frac{129}{138}$$

3.
$$P(\text{cust} \neq \text{male or live} \neq \text{w/pivents}) = |-P(\text{cust} = \text{male & live} = \text{w/pivents})|$$

$$= |-\frac{215}{81+228+116+79+215+272} = \frac{215}{1399}$$

$$+130+97+129+72$$

A: Dependent - if my goal is to lox weight a more likely independent if my goal is to gain muscle (retomorph) & less likely however, taking pop as an hole more likely dependent.

however, thickny pip as he had a constrained as
$$(3)$$
 (3) (4) (3) (5) (3) (6) (3) (6) (3) (6) (3) (6) (3) (6) (3) (6) (3) (7) (3) (8) (3) (8) (3) (9) (3) (9) (3) (10) (3) (11) (3) (12) (3) (13

A: independent - there should be no correlation of one event over

only may depended in it evening news suche up lets

$$\binom{14}{8} = 14 \times 13 \times 12 \times 11 \times 10 \times 9 \times 8 \times 7 = 121,080,960$$

$$\binom{9}{3}\binom{4}{1} = \frac{9!}{3(9-3)!} \cdot \frac{4!}{1!(4-1)!} = \frac{9\times\delta\vee7}{3\times2} \cdot \frac{4}{1} = 84\times4 = 336$$

17.
$$P(T \leq Y) = $22$$
 else \$26
 $\binom{9}{4} + \binom{9}{3} + \binom{9}{3} + \binom{9}{3} + \binom{9}{3} = \frac{9!}{4!(5!)} + \frac{9!}{3!(6!)} + \frac{9!}{2!(9!)} + \frac{9!}{1!(5!)} = \frac{9.876}{9.32} + \frac{9.8}{3.1} + \frac{9!}{3} + \frac{9}{3} = 243$ or takes
$$P(T \leq Y = 89) = \frac{243}{27} = 0.17$$

$$P(T \leq Y = 89) = \frac{243}{27} = 0.17$$

$$P(W) = 0.53 = D = 22 \cdot 0.47 - 26 \cdot 0.53 = -$3$$

$$P(T \leq Y = 89) = \frac{243}{27} = 0.17$$

TA! Do not take bet

13. experiment
$$P(liar) = 20^{\circ}l_{0}$$

Machine

$$0.59.02 = 0.118 \approx 0.596$$

$$0.59.2 + 0.1.0.8 = 0.198 \approx 0.596$$

$$P(T|DT) = \frac{P(DT|T) \cdot P(T)}{P(DT|T) \cdot P(T)} = \frac{P(DT|T) \cdot P(T)}{P(DT|T) \cdot P(T)}$$

$$= \frac{0.9 \cdot 0.8}{0.9008 + 0.41 \cdot 0.2} = \frac{0.72}{0.802} \approx 0.898$$

$$C. P(L VDL) = P(L) + P(DL) - P(L \cap DL)$$

$$= P(L) \cdot P(DL \mid L)$$

$$= P(L) \cdot P(DL \mid L)$$

$$= P(L) \cdot P(DL \mid L)$$

$$= 0.2 + 0.198 - 0.2(0.59)$$

$$= 0.28$$