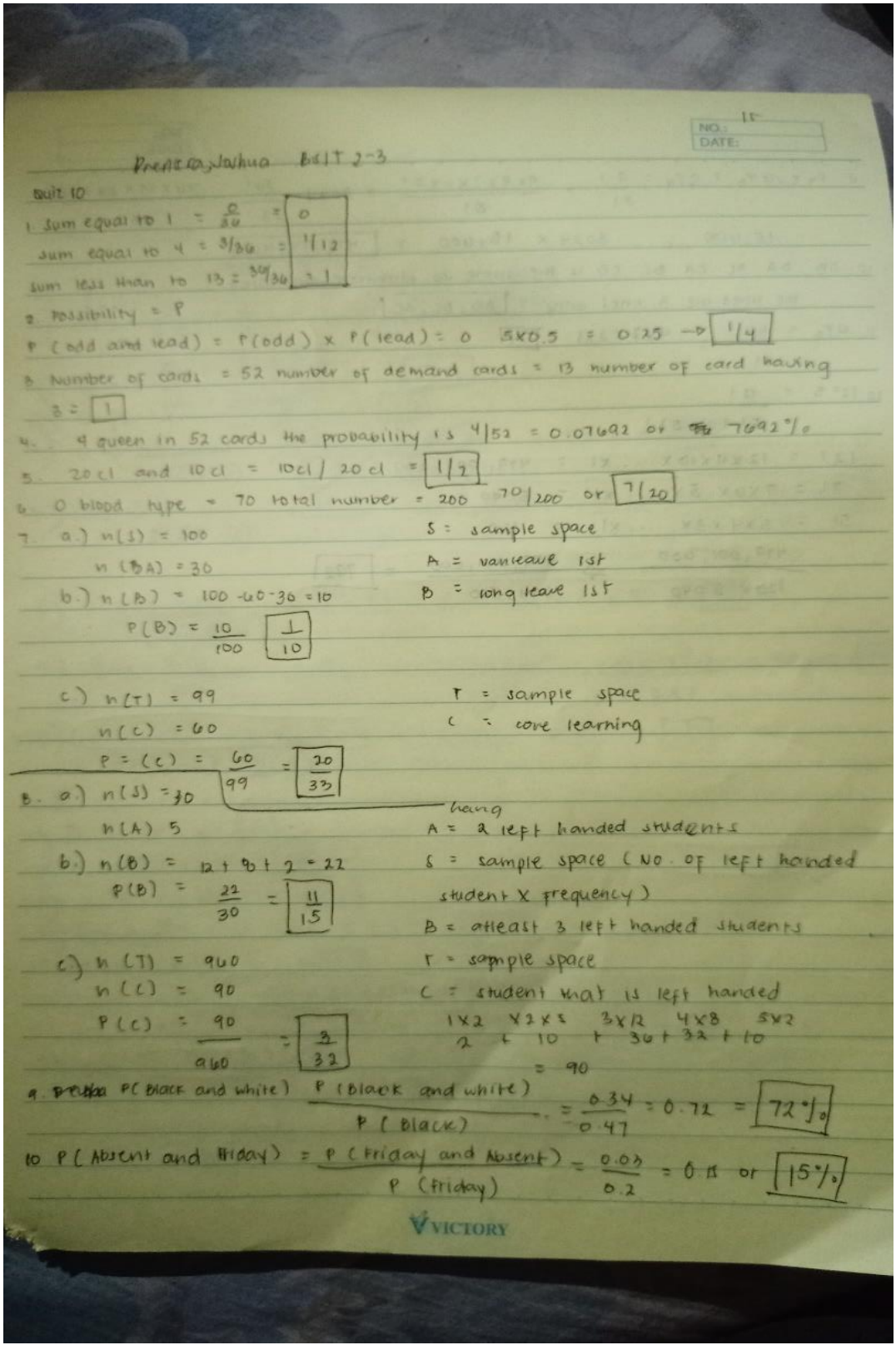
PRENSICA, JOSHUA WEEK 16



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Quiz 10

1. Sum equal to 1 = $\frac{0}{36}$ = 0
   Sum equal to 4 = $\frac{3}{36}$ = $\frac{1}{12}$
   Sum less than to 13 = $\frac{36}{36}$ = 1

2. Possibility = P

P (odd and lead) = P(odd) x P(lead) = 0.5 x 0.5 = 0.25 → $\frac{1}{4}$

3. Number of cards = 52 number of demand cards = 13 number of card having 3 = 1

4. 4 queen in 52 cards the probability is 4/52 = 0.07692 or 7692%

5. 20 cl and 10 cl = 10cl / 20 cl = $\frac{1}{2}$

6. O blood type = 70 total number = 200 70/200 or $\frac{7}{20}$

7. a.) n(S) = 100
   n(BA) = 30
   S = sample space
   A = vanleave 1st
   B = long leave 1st

   b.) n(B) = 100 - 60 - 30 = 10
   P(B) = $\frac{10}{100}$ = $\frac{1}{10}$

   c.) n(T) = 99
   n(C) = 60
   P = (C) = $\frac{60}{99}$ = $\frac{20}{33}$
   T = sample space
   C = core learning

8. a.) n(S) = 30
   n(A) 5
   A = 2 left handed students
   S = sample space (NO. of left handed student X frequency)

   b.) n(B) = 12 + 90 + 2 = 22
   P(B) = $\frac{22}{30}$ = $\frac{11}{15}$
   B = atleast 3 left handed students

   c.) n(T) = 960
   n(C) = 90
   P(C) = $\frac{90}{960}$ = $\frac{3}{32}$
   T = sample space
   C = student that is left handed
   1x2 + 2x5 + 3x2 + 4x8 + 5x2
   2 + 10 + 30 + 32 + 10
   = 90

9. P(Black and white) = $\frac{P(\text{Black and white})}{P(\text{Black})}$ = $\frac{0.34}{0.47}$ = 0.72 = 72%

10. P(Absent and Friday) = $\frac{P(\text{Friday and Absent})}{P(\text{Friday})}$ = $\frac{0.03}{0.2}$ = 0.15 or 15%

VICTORY