Angeles City Science High School

Math 10

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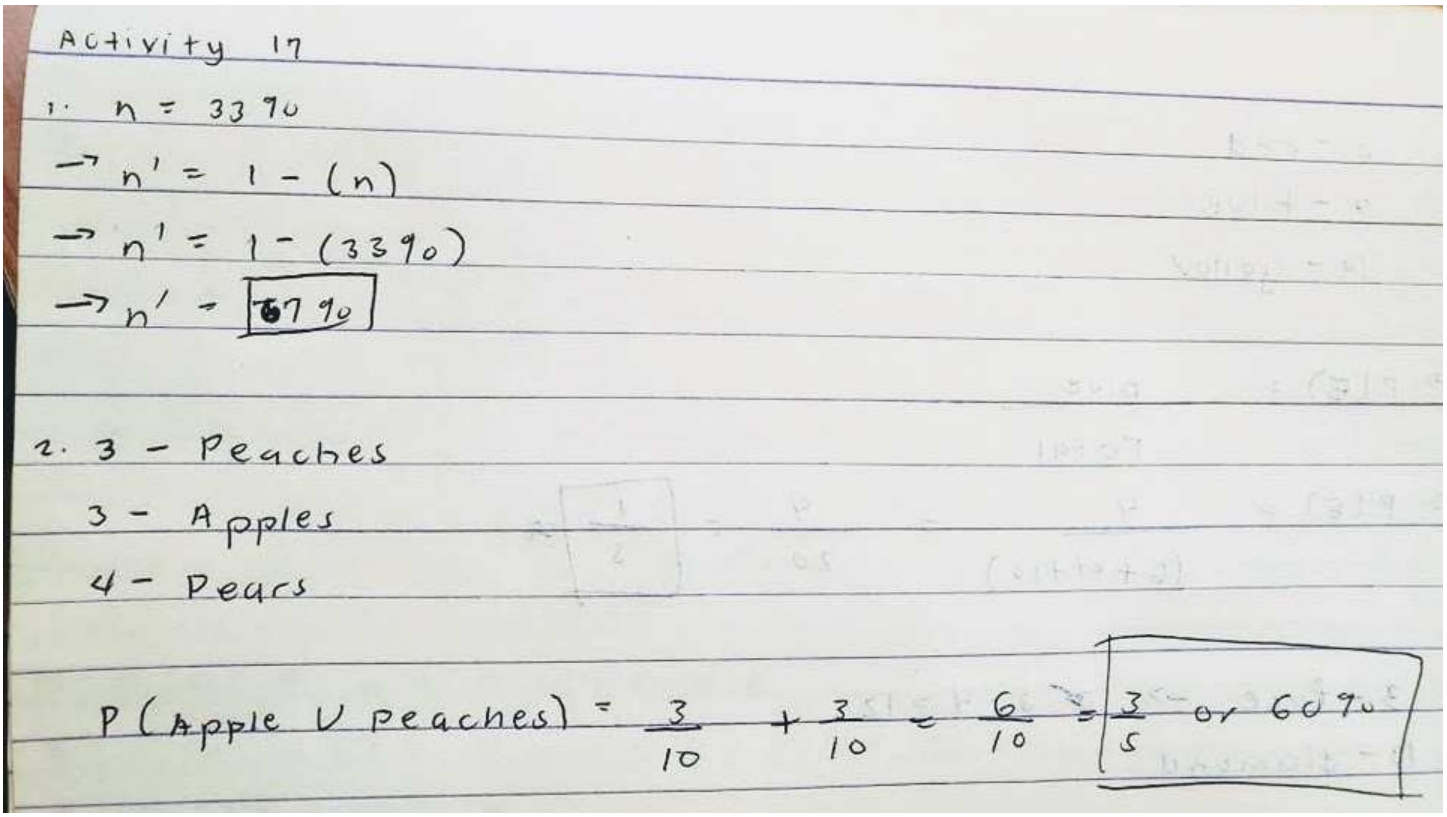

Activity 17

1. $n = 33\%$

$\rightarrow n' = 1 - (n)$

$\rightarrow n' = 1 - (33\%)$

$\rightarrow n' = \boxed{67\%}$

2. 3 - Peaches

3 - Apples

4 - Pears

$P(\text{Apple } \cup \text{ peaches}) = \frac{3}{10} + \frac{3}{10} = \frac{6}{10} = \boxed{\frac{3}{5} \text{ or } 60\%}$

3. $P(H') = 1 - \left(\frac{13}{52}\right)$

$\rightarrow P(H') = \frac{39}{52}$ or $\boxed{\frac{3}{4} \text{ or } 75\%}$

4. odd = {1, 3, 5, 7, 9, 11, 13}

$P(O) = \frac{7}{14} = \boxed{\frac{1}{2} \text{ or } 50\%}$

5. $P(Q \cap C) = \left(\frac{4}{52} + \frac{13}{52}\right) - \frac{1}{52}$

$\rightarrow P(Q \cap C) = \frac{17 - 1}{52} = \frac{16}{52} = \boxed{30.77\%}$

Activity 18

1. Maia
2. JC
3. JC
4. Maia
5. Maia

Activity 19 - III

11. $P(M \cup S) = 0.14 + 0.23 + 0.31 = \boxed{0.68}$

12. $P(M' \cap S') = 1 - (0.68)$

$= \boxed{0.32}$

13. M - 10, 4/10 - P

D - 15, 5/15 - P

→ $P(M \cap P') = \left(\frac{10}{25} + \left(1 - \left(\frac{4+5}{25}\right)\right)\right) - \left(1 - \frac{4}{25}\right)$

→ $P(M \cap P') = \left(\frac{10}{25} + \left(1 - \frac{9}{25}\right)\right) - \left(\frac{6}{25}\right)$

→ $P(M \cap P') = \left(\frac{10}{25} + \frac{16}{25}\right) - \left(\frac{6}{25}\right)$

→ $P(M \cap P') = \frac{26}{25} - \frac{6}{25} = \frac{20}{25} = \boxed{\frac{4}{5} = 80\%}$

14. $P(D \cap P) = \left(\frac{15}{25} + \left(\frac{4+5}{25}\right)\right) - \left(\frac{5}{25}\right)$

→ $P(D \cap P) = \left(\frac{15}{25} + \frac{9}{25}\right) - \left(\frac{5}{25}\right)$

→ $P(D \cap P) = \frac{24}{25} - \frac{5}{25} = \boxed{\frac{19}{25} = 76\%}$

15. A - 6

O - 4

P - 5

$P(P \cup O) = \frac{5}{15} + \frac{4}{15} - \frac{9}{15} = \boxed{\frac{3}{5} = 60\%}$