11/12/23 1) Survey about favourite animal: 30 people - cat, 40 people - dog, 20 people - Cow Hode -> ? 40 people - dog surley of no of pets in a town -30% people had 0, 40% 1, 10% -2, 20%-3 Averge number of pets? 10/. 2/201. 3 40% 30%. Wrong approach Should be Weighted Average.

```
30% -0
                 40 - 40 pets
     40%-1
                 10 - 20 pets
      10% - 2
                  20 - 60 pets
      201. - 3
               100 people - 120 pets
                 120 = 1.2 Average number
                           of pets
Probability:-
                        to happen
 how likely something is
Sample Set Space:
Collection of or set of all possible autromes
what will be the size of Sample space if
 we roll a die and con tors a con
 Simultaneously 3
                   Coin - 2
                     CH,T)
    (1, H), (2 H) (3H) (4H) (6H) (5H)
    (1T) (2T) (3T) (4T) (5T) (6T)
            Jotal Sample Space - 12
```

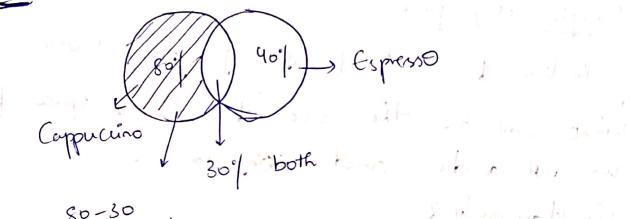
Which of the following is not an Event

The we roll a die?

1.3,5,7

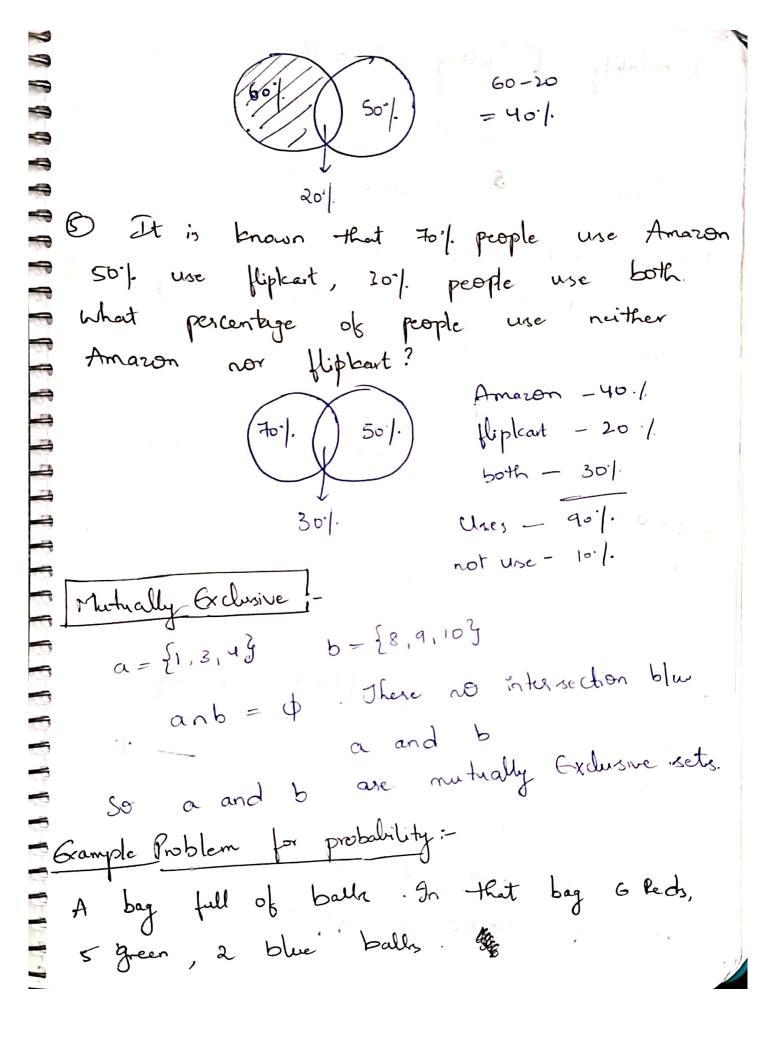
(3) 80% people like Cappucino
40% people like espresso and
30% like both
what percentage of people like Cappucino but
do not like Espresso?

50 . 40 . 30 . 80



80-30

4) 60:1. prople uses Swiggy, 50:1. uses Tomato.
20:1. use both.
What percentage use Swiggy but not
Zomato.?



Probability of getting red ball $=\frac{6}{13}$ Green = $\frac{3}{13}$ blue = $\frac{2}{13}$ Now I pick I Red, I green What is the probability of getting a blue in third Pick This Secrario is Conditional Probability. Sceraro 2: What profit is the Company going to make next year provided that the loss of last year was 30%. and gain was 50%. 6 Wich of the following represent mutually Exclusive sets. Youtube Prenium Vs Non prenium Users — P People who like Cappacinno/Expresso Users of Swiggy &s Zomato Users of Amazon vs flipkart

There are 4 green balls, 6 yellow balls, 2 blue balls in a bog . A random ball is choosen. Find the probability that a yellow or blue ball is Choosen Yellow or blue ball = $\frac{6}{12} + \frac{2}{12} = \frac{8}{12}$ 6 An a NPS Survey, it is seen that 90% are either promoter or neutral are neutral or detractor What precentage of people are neutral? 10 40 20