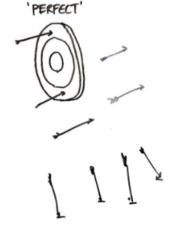
· Practice:

- A box contains 3 blue marbles, 4 red, 6 green marbles and 2 yellow marbles. If two marbles are drawn at random, what is the probability that at least one is green?
- 2. A box contains 3 blue marbles, 4 red, 6 green marbles and 2 yellow marbles. If two marbles are picked at random, what is the probability that they are either blue or yellow?
- 3. A box contains 3 blue marbles, 4 red, 6 green marbles and 2 yellow marbles. If four marbles are picked at random, what is the probability that none is blue?
- 4. 10 books are placed at random in a shelf. The probability that a pair of books will always be together is?
- 5. What is the probability that a leap year has 53 Sundays and 52 Mondays?
- 6. Out of 20 consecutive integers, two are chosen at random. The probability that their sum is odd is?
- 7. A box contains 3 blue marbles, 4 red, 6 green marbles and 2 yellow marbles. If three marbles are drawn what is the probability that one is yellow and two are red?





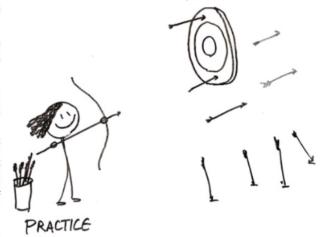




#letslearntoearn

· Practice:

- 8. Out of 10 persons working on a project, 4 are graduates. If 3 are selected, what is the probability that there is at least one graduate among them?
- 9. In a party there are 5 couples. Out of them 5 people are chosen at random. Find the probability that there are at the least two couples?
- 10. The probability of a lottery ticket being a prized ticket is 0.2. When 4 tickets are purchased, the probability of winning a prize on atleast one ticket is?
- 11. There are two boxes, one containing 39 red balls & the other containing 26 green balls. You are allowed to move the balls between the boxes so that when you choose a box random & a ball at random from the chosen box, the probability of getting a red ball is maximized. This maximum probability is
- 12. There are 6 red balls, 8 blue balls and 7 green balls in a bag. If 5 are drawn with replacement, what is the probability at least three are red?



'PERFECT'



1. Total marker : 15 Green marker : 6

> 9/15, 8/14 P(more green) = (9/15) × (8/14) = 72/35 = 7/35 & P(at least one green) = 1 - 12/35 = 23/35.

2. Ohne = 3, Yellow = 2 = 5 =>Total

Total male : 15.

 $= 15C_2 = \frac{15\times14}{2\times1} = 105$

From 5 mars : 502 - 5x4 : 10

10/105 = a/as

3. total manx = 10, Dlue = 3 - Man blue = 12

15 Cy = Ux14x4x12 = 1365

12 Cu = <u>uxilxiox9</u> = 495

495 = 1/3 1365 = 1/3

4. Total arrangement : 10!

mas 9 min -> 9!

9: x2

(9:x2) = 2/10 = 1/5

5. Leap year: 316 days = 52 hours + 2 entre days sm mt TW with The Fish son -> 7 Care.

- 1/2

6. Odd + Even = Odd 10 even , 10 odd 10 × 10 = 100

10×10: 101

Total ways do chure & from 20 : 190

198 - 10/19

7. Yellas: P. Red = 4

Chan Yeller: 20, a

2 Red = 40 = 6

2×6=12

15 (3 = UXMXA) = MBI

= 12

8. Graduat = 1. Man gradua = 6.

700 = (10) = 100

infavoux : (6) - 20

at lest one apadres = 100 - 20 = 100

160 = 5 100 = 5

- 0.4006

30, P (ad lead one win): 1-0,4096

- 02904

Bun A: 38 red

B: 1 ded + 66 green: 275 alls

P (select Bank) = Y2, P(reld Bun 18) = 1/2

1= (A/ her)9

P(ud 10) = 1/2

12. Let New = \$124 = 2/4

P(X) 37 - P(3)+P(4) +P(3)

p(3) = (3) (2) 3 (5) 2 = 10.8 .95 = 16802

p(u): (=1 -(2) h. (=1) = 3. 16 = = 400 16807

P(S) = (\$) -(\$) = 32

(- 2000+400+32 = 2432