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PROBABILITY

- has a number which is a multiple of 3 or 5? drawn at random. What is the probability that the ticket drawn 1. Tickets numbered 1 to 20 are mixed up and then a ticket is
- c.8/15
- 2. What is the probability of getting a sum 9 from two throws of a dice?
- a.1/6c.1/9 d.1/12
- 3. Three unbiased coins are tossed. What is the probability of getting at most two heads?
- c.3/8

- getting a queen of club or a king of heart is: 4. A card is drawn from a pack of 52 cards. The probability of
- b.2/13
- drawn at random from the bag. The probability that all of them are red, 15: 5. A bag contains 4 white, 5 red and 6 blue balls. Three balls are
- A tyre manufacturing company kept a record of the distance results of 1000 cases covered before a tyre needed to be replaced. The table shows the a.1/22 b.3/22c.2/91
- If a tyre is bought from this company, what is the probability that Less than 4000 4000 to 9000 9001 to 14000 More than 14000
- (i) it has to be substituted before 4000 km is covered?





















(ii) it will last more than 9000 km?

(iii) it has to be replaced after 4000 km and 14000 km is covered

speaking the truth is 2/3. And the probability of B speaking false is 3/5. What is the probability of: 7.In an enquiry of 2 members A and B, The probability of A

b.Both speaking false d.Both giving different answer. c.Both giving same answer a.Both speaking the truth.

event 'getting a prime number', B be the event 'getting an odd 8. Consider the experiment of rolling a die. Let A be the number'. Write the sets representing the events

(1) Aor B

(ii) A and B

(iv) 'not A'. (iii) A but not B

(ii) A and B = A \cap B = {3,5} (i) A or B = A \cup B = {1, 2, 3, 5} Solution: $S = \{1, 2, 3, 4, 5, 6\}, A = \{2, 3, 5\} \text{ and } B = \{1, 3, 5\}$

(iv) not $A = A' = \{1,4,6\}$ (iii) A but not $B = A - B = \{2\}$

10. What is the probability that in the rearrangements of the one of the selected persons will be a girl.

are to be selected for the job. Find the probability that at least 9. Out of 17 applicants, there are 8 boys and 9 girls. Two persons

word AMAZED, the letter 'E' is positioned in between the 2 c.1/3d.1/5

'A's ?





















PROBABILITY ON CARDS

b)both are green.

c)both are of same colour.

d)none is green

- probability that it will be a: 11.A card is drawn from a deck of 52 cards. what is the
- e)queen f)jack g)spades a)Black cards b)Red cards c)Red or black cards d)king h)king or queen i)king or

spades(...-1) j)king and spade k)special cards 1)face cards

- Two cards are drawn at random, what is the probability that:
- a)Both are kings b)Both are queens g)neither kings nor queens clubs d)one is king and other is queen. and the other is diamond f)either both are kings or queens h)only one is special card. e)one is heart c)Both are

are not same colour:?

contains 53 Sundays is :?

15.what is the probability that a leap year selected at random

14. what is the probability of getting 57 Sundays in a leap year?

Two roses are drawn at random, what is the probability that they 16. A bag contains 2 red roses, 3 yellow roses, and 6 pink roses.

Problems on balls

at random, what is the probability that: 13.A bag contains 5 red and 3 green balls,;two balls are picked

a)one is red and one is green.

creens 5-6 of 6

Sunny































