

KUMAR ONLINE CLASS

CBSE(NCERT): CLASS IX MATHS

CASE STUDY

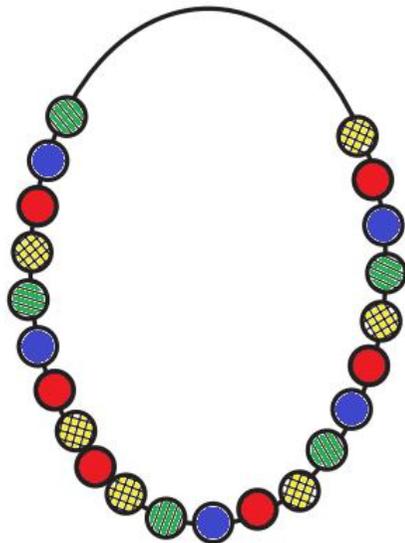
QUESTION 16



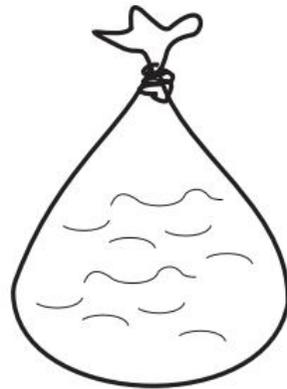
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CASE STUDY QUESTION 16

Aditi runs a handicraft shop in Bapu bazar in Jaipur. She makes beautiful necklaces using colourful beads which she keeps in a potli. Today she prepared 19 necklaces but could not make the 20th necklace as she had no yellow beads left. She counted the beads and found that there were 8 red, 6 green and 14 blue beads remaining in her potli. Her little daughter Dulari requested for a bead. Aditi decides to take out one bead from her potli for Dulari.



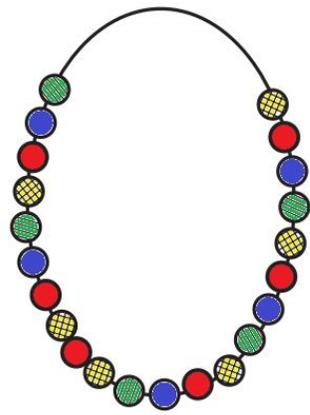
Necklace



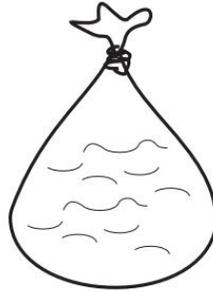
Aditi's Potli



-  Red Bead
-  Green Bead
-  Blue Bead
-  Yellow Bead



Necklace



Aditi's Potli



- Red Bead
- Green Bead
- Blue Bead
- Yellow Bead

(a) Find the probability that she draws a green bead.

- (i) $3/11$ (ii) $3/7$ (iii) $11/14$ (iv) $3/14$

$$\text{Total number of beads in the Potli} = 8 + 6 + 14 = 28$$

$$\text{Number of green beads in the Potli} = 6$$

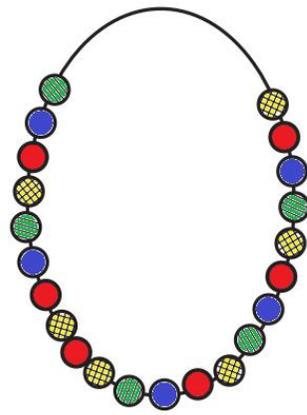
$$\text{Required probability} = 6/28 = 3/14$$

(b) Find the probability that the bead drawn by her is not green.

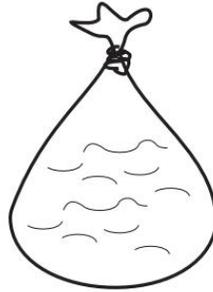
- (i) $3/11$ (ii) $3/7$ (iii) $11/14$ (iv) $3/14$

$$\text{Number of beads not green in the Potli} = 28 - 6 = 22$$

$$\text{Required probability} = 22/28 = 11/14$$



Necklace



Aditi's Potli



- Red Bead
- Green Bead
- Blue Bead
- Yellow Bead

(c) Find the probability that she draws either a green or a blue bead.

- (i) $5/7$ (ii) $5/12$ (iii) $7/12$ (iv) $3/14$

Number of blue and green beads in the Potli = $14 + 6 = 20$

Required probability = $20/28 = 5/7$

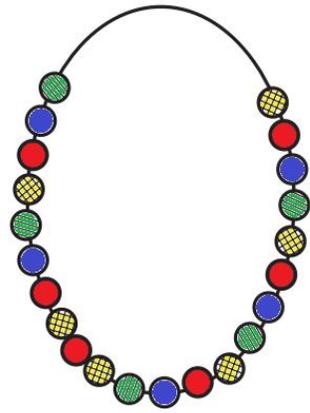
(d) Find the probability that she draws neither a red nor a green bead.

- (i) $3/14$ (ii) $1/3$ (iii) $3/7$ (iv) $1/2$

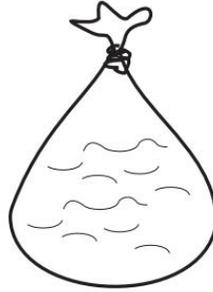
Number of beads neither green nor red in the Potli =

Number of blue beads in the Potli = 14

Required probability = $14/28 = 1/2$



Necklace



Aditi's Potli



- Red Bead
- Green Bead
- Blue Bead
- Yellow Bead

(e) Which of the following is an impossible event?

- (i) The bead drawn is not red
- (ii) The bead drawn is neither red nor blue
- (iii) The bead drawn is either red or green or blue.
- (iv) The bead drawn is yellow.

Ans: (iv) The bead drawn is yellow.

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