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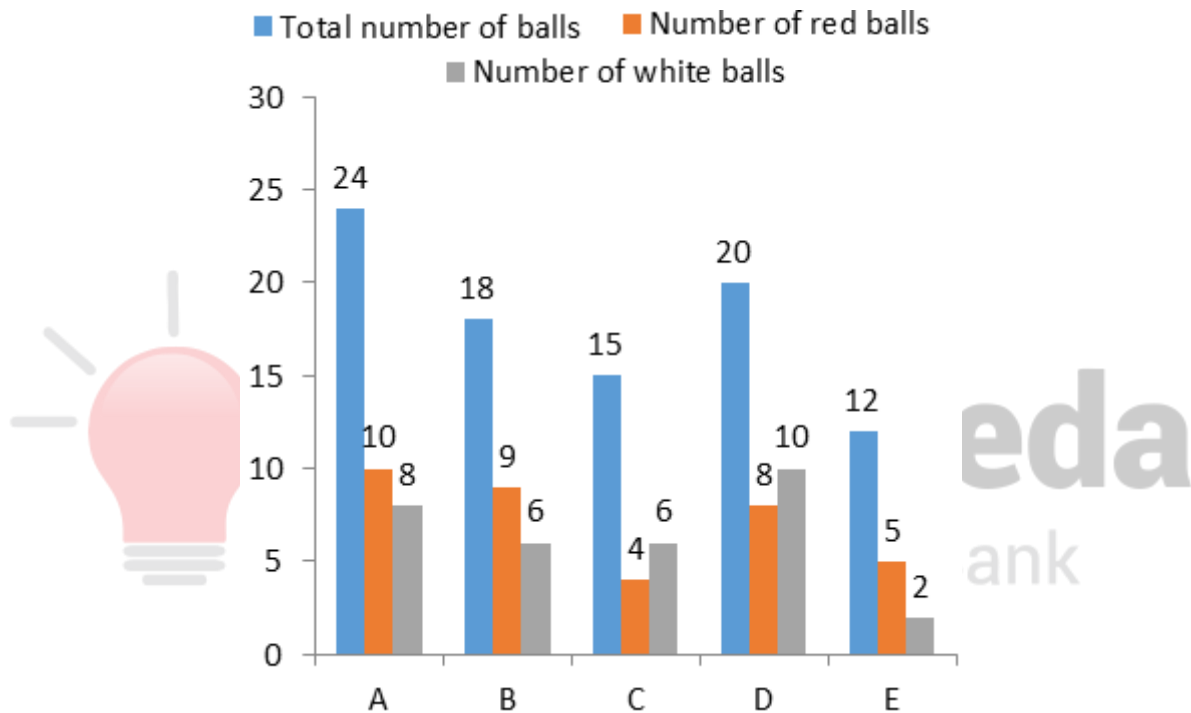
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DI Bar Chart Questions for SBI PO Mains, IBPS PO Mains and RBI Grade B Exams.

DI Bar Chart No 61

Directions: Study the following bar chart carefully and answer the questions given beside.

The bar chart below shows the total balls of three colours red, white and black, number of red balls and number of white balls, present in five different bags.



- Find the probability of withdrawing a black and a white ball from bag C.
A. $\frac{1}{3}$ B. $\frac{2}{7}$ C. $\frac{4}{9}$ D. $\frac{8}{17}$ E. $\frac{1}{4}$
- What is the difference of probability of drawing a black ball from bag A and probability of drawing a black ball from bag E?
A. $\frac{1}{5}$ B. $\frac{2}{3}$ C. $\frac{1}{6}$ D. $\frac{2}{7}$ E. $\frac{3}{5}$
- 3 balls are drawn from bag D. What is the probability that all balls are of different colours?
A. $\frac{7}{41}$ B. $\frac{12}{61}$ C. $\frac{8}{57}$ D. $\frac{3}{13}$ E. $\frac{11}{53}$

4. If all balls from bag B is added in bag E and then black ball is withdrawn from bag E. Find the probability.

A. $\frac{4}{15}$

B. $\frac{1}{5}$

C. $\frac{7}{13}$

D. $\frac{4}{9}$

E. $\frac{3}{11}$

5. 2 balls are drawn from C. What is the probability that both balls are white in colour?

A. $\frac{6}{11}$

B. $\frac{3}{8}$

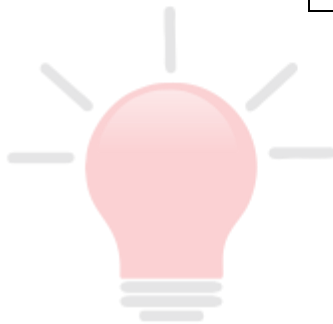
C. $\frac{2}{5}$

D. $\frac{1}{7}$

E. $\frac{3}{4}$

Correct Answers:

| | | | | |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
| B | C | C | A | D |



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Explanations :

1. Number of black ball in bag C = $15 - (4 + 6) = 5$

$$\text{Probability} = \frac{{}^5C_1 \times {}^6C_1}{{}^{15}C_2} = \frac{5 \times 6 \times 2}{15 \times 14} = \frac{2}{7}$$

Hence, option B is correct.

2. Number of black ball in bag A = $24 - (10 + 8) = 6$

$$\text{Number of black ball in bag E} = 12 - (5 + 2) = 5$$

$$\text{Difference} = \frac{5}{12} - \frac{6}{24} = \frac{10 - 6}{24} = \frac{4}{24} = \frac{1}{6}$$

Hence, option C is correct.

3. Number of black ball in bag D = $20 - (8 + 10) = 2$

$$\text{Probability} = \frac{{}^8C_1 \times {}^{10}C_1 \times {}^2C_1}{{}^{20}C_3}$$
$$= \frac{8 \times 10 \times 2 \times 6}{20 \times 19 \times 18} = \frac{8}{57}$$

Hence, option C is correct.

4. Number of black ball in bag B = $18 - (9 + 6) = 3$

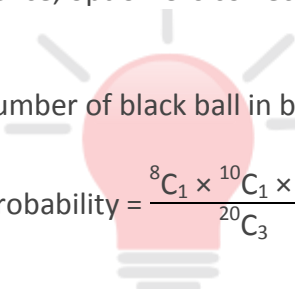
$$\text{Number of black ball in bag E} = 12 - (5 + 2) = 5$$

$$\text{Number of black ball in bag E after addition} = 3 + 5 = 8$$

$$\text{Total number of balls in bag E after addition} = 18 + 12 = 30$$

$$\text{Probability} = \frac{8}{30} = \frac{4}{15}$$

Hence, option A is correct.



5. Number of black ball in bag C = $15 - (4 + 6) = 5$

$$\text{Probability} = \frac{{}^6C_2}{{}^{15}C_2} = \frac{6 \times 5}{15 \times 14} = \frac{1}{7}$$

Hence, option D is correct.



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