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DI Mixed Chart Questions for IBPS Clerk Mains, SBI Clerk Mains, IBPS PO Pre and SBI PO Pre Exams.

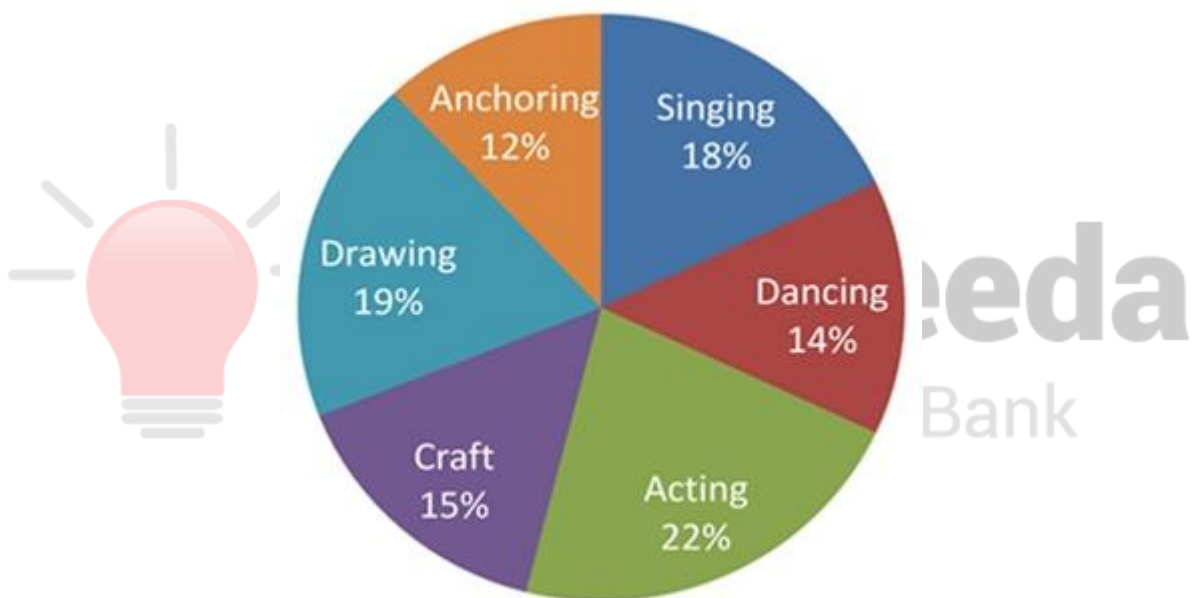
DI Mixed Chart No.80

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

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

The pie chart show the percentage of the students who took part in different activities and table shows the ratio of the boys and girls.

Total Students = 5400



Activity	Boys : Girls
Singing	4 : 5
Dancing	3 : 4
Acting	6 : 5
Craft	3 : 2
Drawing	1 : 2
Anchoring	3 : 1

1. What is the ratio of the boys who participate in craft and singing together and the girls who participate in Dancing and Drawing together?

A. 49 : 61

B. 51 : 62

C. 40 : 51

D. 62 : 41

E. None of these

2. What is the average number of boys participate in all activity?

- A. 469 B. 502 C. 453 D. 463 E. 526

3. If 25% of the students who participate in Dancing, also participate in Craft and 20% of the students who participate in Craft, also participate in Dancing, find the ratio of the students who participate in only Dancing and only Craft.

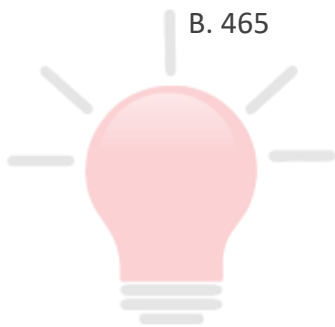
- A. 7 : 8 B. 2 : 3 C. 11 : 10 D. 13 : 17 E. None of these

4. The number of boys who participate in Anchoring is what percent of the girls who participate in Acting?

- A. 85% B. 90% C. 92% D. 75% E. None of these

5. If the age of the 50% of the boys participate in Acting and 40% of the girls participate in Acting is below 16 years, find the number of students whose age is above 16 years participate in Acting.

- A. 650 B. 465 C. 684 D. 556 E. None of these



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Correct Answers:

1	2	3	4	5
B	C	A	B	E

Explanations :

1. Boys who participate in Craft

$$= 5400 \times 15\% \times \frac{3}{5} = 486$$

Boys who participate in Singing

$$= 5400 \times 18\% \times \frac{4}{9} = 432$$

Girls who participate in Dancing

$$= 5400 \times 14\% \times \frac{4}{7} = 432$$

Girls who participate in Drawing

$$= 5400 \times 19\% \times \frac{2}{3} = 684$$

$$\text{Ratio} = 486 + 432 : 432 + 684 = 918 : 1116 = 51 : 62$$

Hence, option B is correct.

2. Boys participate in Singing

$$= 5400 \times 18\% \times \frac{4}{9} = 432$$

$$\text{Boys participate in Dancing} = 5400 \times 14\% \times \frac{3}{7} = 324$$

$$\text{Boys participate in Acting} = 5400 \times 22\% \times \frac{6}{11} = 648$$

$$\text{Boys participate in Craft} = 5400 \times 15\% \times \frac{3}{5} = 486$$

$$\text{Boys participate in Drawing} = 5400 \times 19\% \times \frac{1}{3} = 342$$

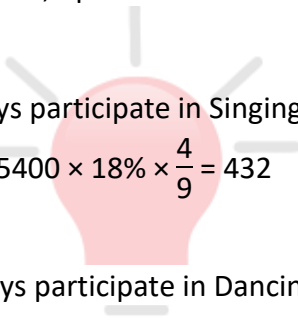
$$\text{Boys participate in Anchoring} = 5400 \times 12\% \times \frac{3}{4} = 486$$

$$\text{Average} = \frac{(432 + 324 + 648 + 486 + 342 + 486)}{6}$$

$$= \frac{2718}{6} = 453$$

Hence, option C is correct.

3. Students who participate in Dancing = $5400 \times 14\% = 756$



25% of the Students who participate in Dancing also participate in Craft = $756 \times 25\% = 189$

Students who participate in Craft = $5400 \times 15\% = 810$

20% of the Students who participate in Craft also participate in Dancing = $810 \times 20\% = 162$

Students who only participate in Dancing = $(756 + 162) - (162 + 189) = 567$

Students who only participate in Craft = $(810 + 189) - (162 + 189) = 648$

Ratio = $567 : 648 = 7 : 8$

Hence, option A is correct.

4. Boys participate in Anchoring

$$= 5400 \times 12\% \times \frac{3}{4} = 486$$

Girls participate in Acting

$$= 5400 \times 22\% \times \frac{5}{11} = 540$$

$$\text{percent} = \frac{486}{540} \times 100 = 90\%$$

Hence, option B is correct.

5. Boys Participate in Acting

$$= 5400 \times 22\% \times \frac{6}{11} = 648$$

Age below 16 = $648 \times 50\% = 324$

$$\text{Girls participate in Acting} = 5400 \times 22\% \times \frac{5}{11} = 540$$

Age below 16 = $540 \times 40\% = 216$

Age above 16 = $(648 - 324) + (540 - 216) = 324 + 324 = 648$

Hence, option E is correct.

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