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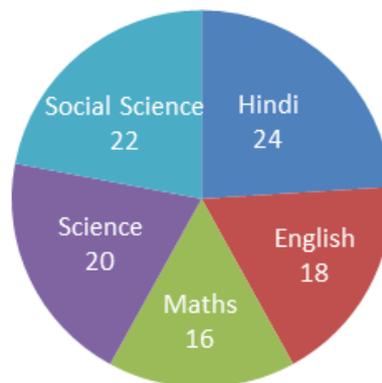
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DI Mixed Chart Questions for SBI Clerk Pre, IBPS Clerk Pre, LIC Assistant Pre and IBPS RRB Assistant Pre Exams.

DI Mixed Chart No. 88

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

In a state, the total number of school teachers is 15000. The pie chart given below gives the information about the percentage wise distribution of school teachers who teach five different subjects.



The table given below gives the information about the ratio of male teachers to female teachers in the respective subjects.

Subjects	Male Teachers	Female Teachers
Hindi	5	3
English	3	2
Maths	13	12
Science	7	3
Social Science	6	5

1. What is the total number of female teachers in the state?

- A. 5982 B. 5052 C. 6012 D. 5878 E. None of these

2. What is the ratio of male teachers to female teachers in the state?

- A. 1506 : 996 B. 1503 : 997 C. 1501 : 997 D. 1499 : 990 E. None of these

3. The number of male social science teachers is double in number of female teachers of which of the following subjects?

- A. Hindi B. Maths C. Science D. English E. None of these

4. The number of social science teachers is what percentage more than the number of female science teachers?

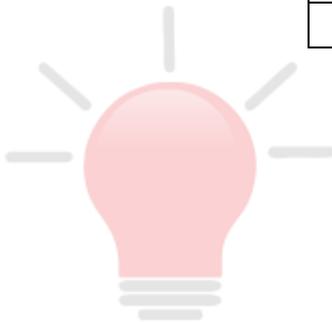
- A. $266\frac{2}{9}\%$ B. $366\frac{2}{3}\%$ C. $366\frac{1}{3}\%$ D. $266\frac{2}{3}\%$ E. None of these

5. The number of male teachers in Hindi, English and science is how much more than the number of female teachers in maths, science and social science?

- A. 2418 B. 2492 C. 2348 D. 2388 E. None of these

Correct Answers:

1	2	3	4	5
A	B	C	D	A



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Common explanation :

Let's draw a new table on number wise

Subjects	Males	Females
Hindi	$(5/8) \times 24\% \text{ of } 15000 = 2250$	$(3/8) \times 24\% \text{ of } 15000 = 1350$
English	$(3/5) \times 18\% \text{ of } 15000 = 1620$	$(2/5) \times 18\% \text{ of } 15000 = 1080$
Maths	$(13/25) \times 16\% \text{ of } 15000 = 1248$	$(12/25) \times 16\% \text{ of } 15000 = 1152$
Science	$(7/10) \times 20\% \text{ of } 15000 = 2100$	$(3/10) \times 20\% \text{ of } 15000 = 900$
Social Science	$(6/11) \times 22\% \text{ of } 15000 = 1800$	$(5/11) \times 22\% \text{ of } 15000 = 1500$
Total	9018	5982



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Answers :

1. Following the common explanation, we get

Total no. of female teachers in the state = 5982

Hence, option A is correct.

2. Following the common explanation, we get

The required ratio = 9018 : 5982 = 1503 : 997

Hence, option B is correct.

3. Following the common explanation, we get

The number of male social science teachers = 1800 = 2 × number of science female teachers

Hence, option C is correct.

4. Following the common explanation, we get

The number of social science teachers = 3300

the number of female science teachers = 900

$$\text{The reqd. \%} = \frac{(3300 - 900) \times 100}{900} = \frac{2400 \times 100}{900}$$

$$= \frac{2400}{9} = \frac{800}{3} = 266\frac{2}{3}\%$$

Hence, option D is correct.

5. Following the common explanation, we get

The number of male teachers in Hindi, English, and science = (2250 + 1620 + 2100) = 5970

The number of female teachers in maths, science, and social science = (1152 + 900 + 1500) = 3552

The required difference = (5970 - 3552) = 2418

Hence, option A is correct.



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