

Examrace

Method of Data Interpretation for Paper 1 Unit VII (Data Interpretation) as Per New 2021 Syllabus

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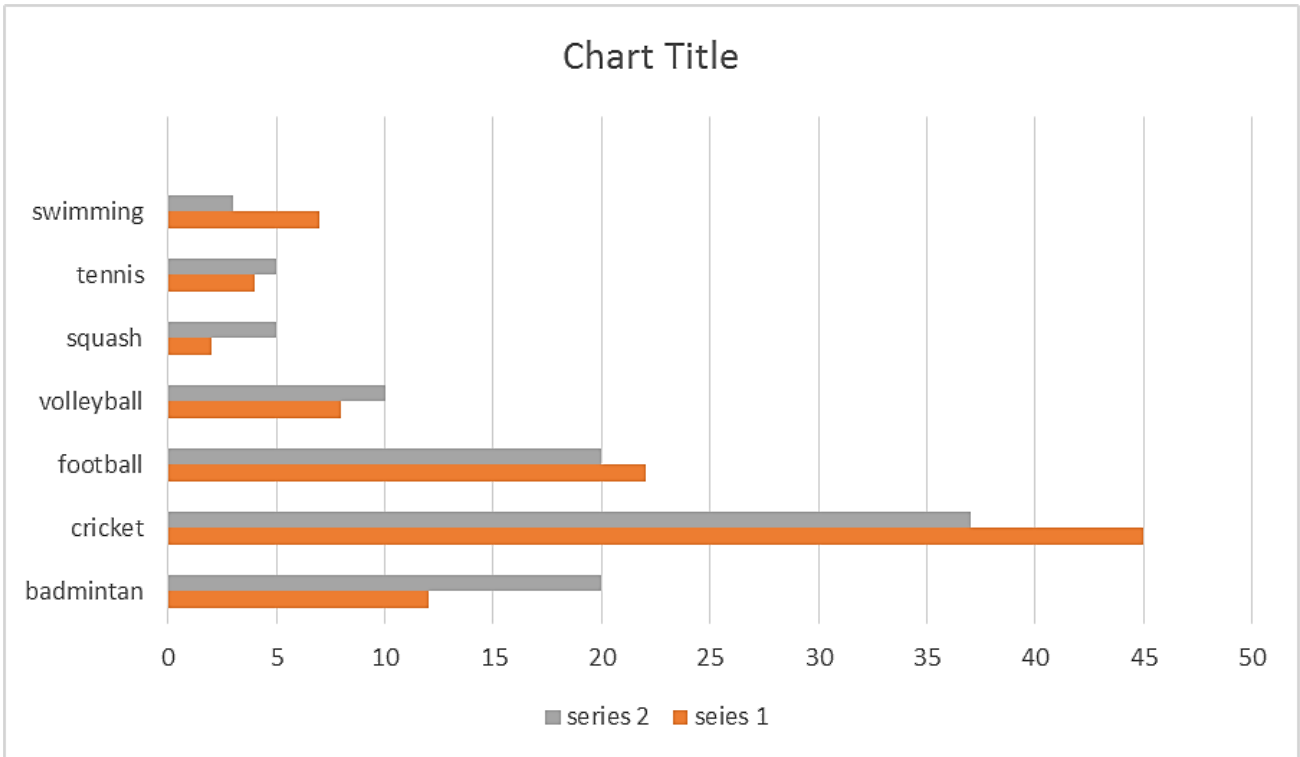
Data Interpretation

- In data interpretation, we are given data in the form of visuals, like table, graph, chart, etc. and a set of questions that follow. Mainly, they use percentage, ratio or proportion.
- Data interpretation is a major part of quantitative aptitude for any banking exam.
- Interpretation is the process of making sense of numerical data that has been collected, analyzed, & presented. Interpreting data is an important critical thinking skill that helps uh comprehend, textbooks, graphs, & tables.
- Data interpretation section are based on following topics of the arithmetic section:
 - Ratios
 - Averages
 - Percentages

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- If basics of this are clear, attempting DI in the exams comparatively becomes easy.
- Now let's go through the types of data interpretation graphs/charts that you may encounter in the exams-
 - Pie charts
 - Line charts
 - Bar graphs
 - Tabular charts
 - Mixed graphs
- Consider the following data presented in the bar graphs-
- Percentage of students who like different sports in two different years is provided in this graph. Total number of students is 1000 for both the years.

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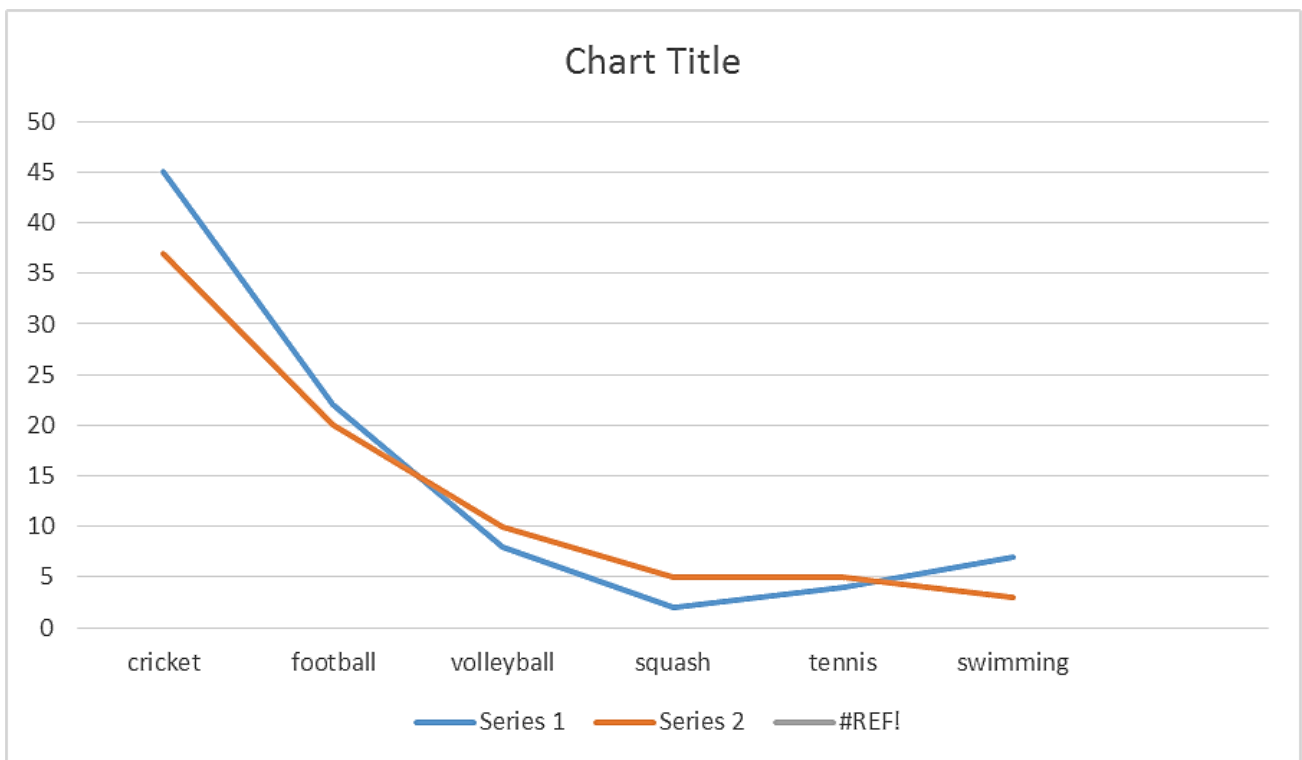


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- Now following types of questions may be asked from this data:
 - Sum of difference based
 - These are the most of the basic question, first find the number of students who like the two sports in the two years-
 - 2015 – Badminton = $\left(\frac{12}{100}\right) \times 1000 = 120$
 - Cricket = $\left(\frac{45}{100}\right) \times 1000 = 450$
 - Total = 570
 - 2012 – Badminton = $\left(\frac{20}{100}\right) \times 1000 = 200$
 - Cricket = $\left(\frac{37}{100}\right) \times 1000 = 370$
 - Total = 570
 - Sum = 570 + 570 = 1140
- Average based question
 - Average based question are very commonly asked in data interpretation sets. For instance, what is the average number of students who like badminton, cricket & football in 2011 = $(12 + 45 + 22) \div 3 = 79\%$ of 1000 required average = $\frac{790}{3}$
- Ratio based question
 - Another arithmetic operation based question that may be asked in ratio based
 - What is the ratio of the students who like football & tennis in 2011 & those who like volleyball & squash in 2012?
 - Students who like football & tennis in 2011 = $(22 + 4) = 26\%$ of 1000
 - Students who like volleyball & squash in 2012 = $(10 + 5) = 15\%$ of 1000
 - Required ratio (26% of 1000) : (15% of 1000) = 26 : 15
- Percentage based question
 - The students who like badminton & squash in 2011 is what per cent of the students who like football & swimming in 2011?

- Students who like badminton & squash in 2011 = (12 + 2) = 14% of 1000
- Students who like football & swimming in 2011 = (22 + 7) = 29% of 1000
- Required percentage = $\frac{(14\% \text{ of } 1000)}{(29\% \text{ of } 1000)} \times 100 + \frac{1400}{29\%}$

• Line graph:



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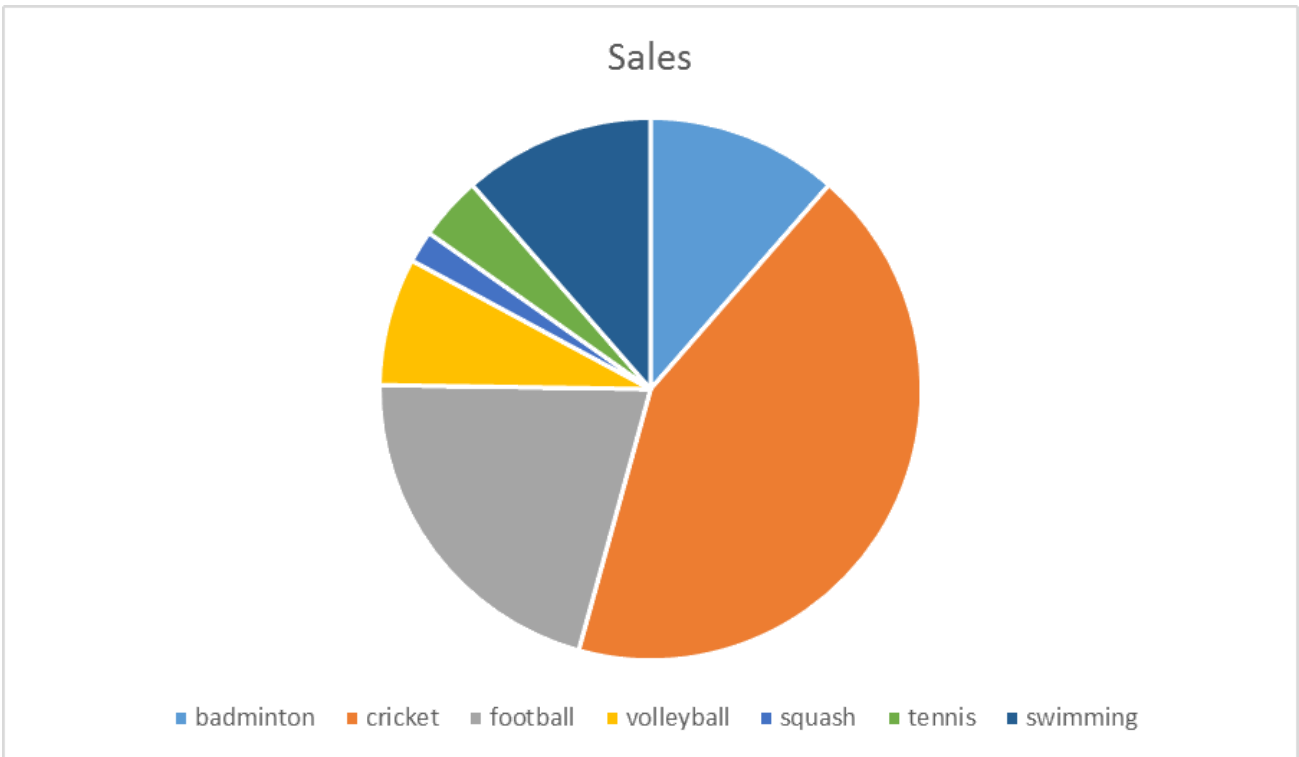
• Tabular chart:

Sports	Year 2011	Year 2012
Badminton	12	20
Cricket	45	37
Football	22	20

Volleyball	8	10
Squash	2	5
Tennis	4	5
swimming	7	3
<i>Sports for 2 Years</i>		

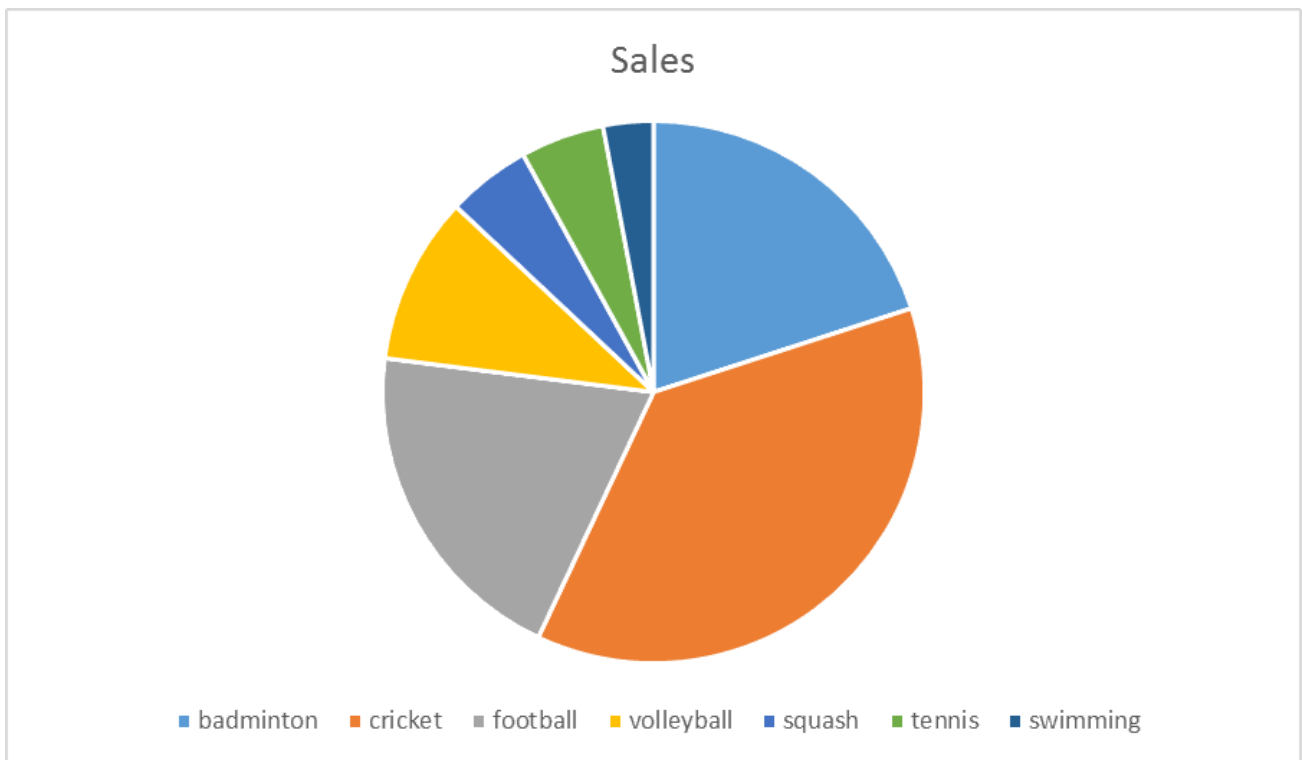
- Pie chart:

Year 2011-



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Year 2012-



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- One more variety of question that may be asked in pie chart in the angle based. For instance, what is the central angle correspondence to football & volleyball together for 2012?
- Angle = $(20 + 10)\% \times 360 = \left(\frac{30}{100}\right) \times 360 = 108$

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