

Data Interpretation Questions For Railway Exams

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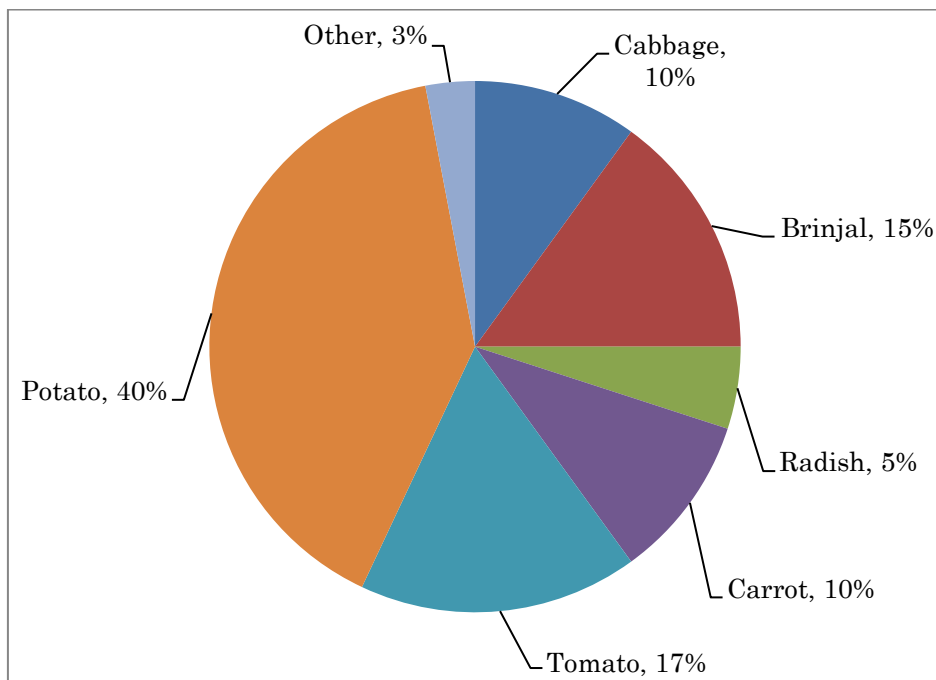
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Data Interpretation Questions for Railway NTPC Exams

Direction (01–04): The pie chart below shows the distribution of land for various vegetables in a village for a total cultivation area of 3000 acres. Answer the questions below based on the share of different vegetables as shown in the chart below.



- What is the cultivation area for Tomato?**
 - 540 Acre
 - 510 Acre
 - 480 Acre
 - 490 Acre
- What is the total cultivation area under the vegetables Potato and Brinjal ?**
 - 1650 Acre
 - 1830 Acre
 - 1800 Acre
 - 1860 Acre
- Radish, Tomato and Cabbage together account for how much cultivation area of the village?**
 - 930 Acre
 - 990 Acre
 - 950 Acre
 - 960 Acre
- How much cultivation area is covered under Carrot and Tomato?**
 - 840 Acre



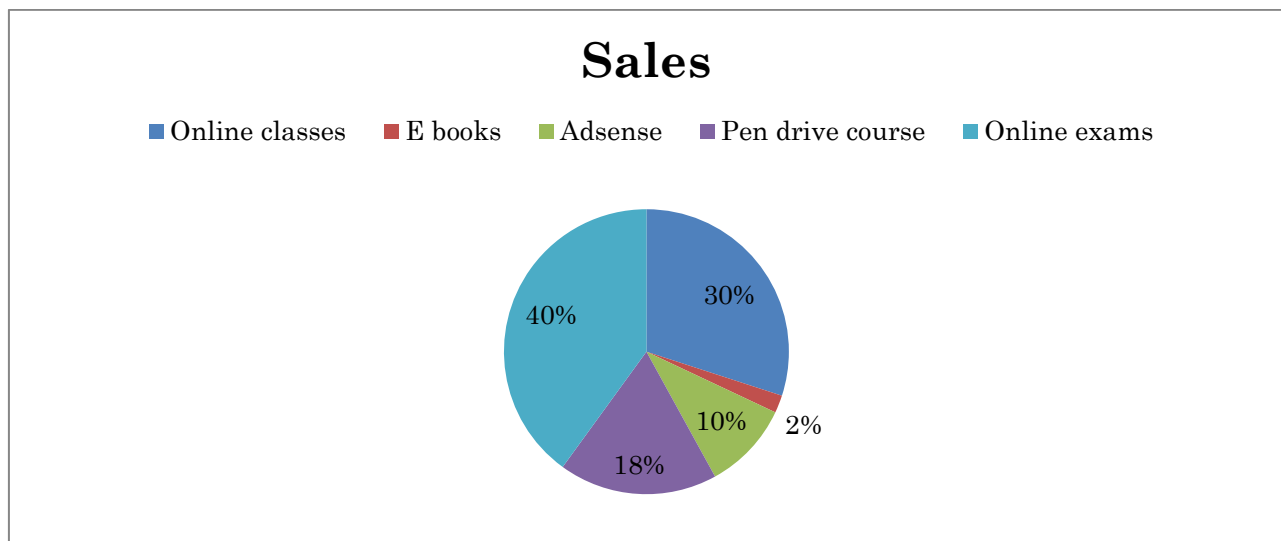
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b) 870 Acre

c) 810 Acre

d) 960 Acre

Direction (5 – 8): IBPS Guide collected Rs. 200 crores of funds from different sources. Answer the questions below based on the fund collection from different sources as given in the pie chart below.



5. What is the amount of fund collected through Ebooks and Adsense together?

- a) Rs. 20 Crore
- b) Rs. 30 Crore
- c) Rs. 24 Crore
- d) Rs. 27 Crore

6. How much amount is collected from Pendrive Courses?

- a) Rs. 36 Crore
- b) 18 Crore
- c) Rs. 30 Crore

d) Rs. 40 Core

7. What is the difference between the amount collected from Online exams and Online classes?

- a) Rs. 60 Crore
- b) Rs. 100 Crore
- c) Rs. 10 Crore
- d) Rs. 20 Crore

8. If one-fifth of the fund collected from Adsense is invested in research development facilities at IBPS Guide, how much total amount is invested in research development facilities?

a) Rs. 9 Crore



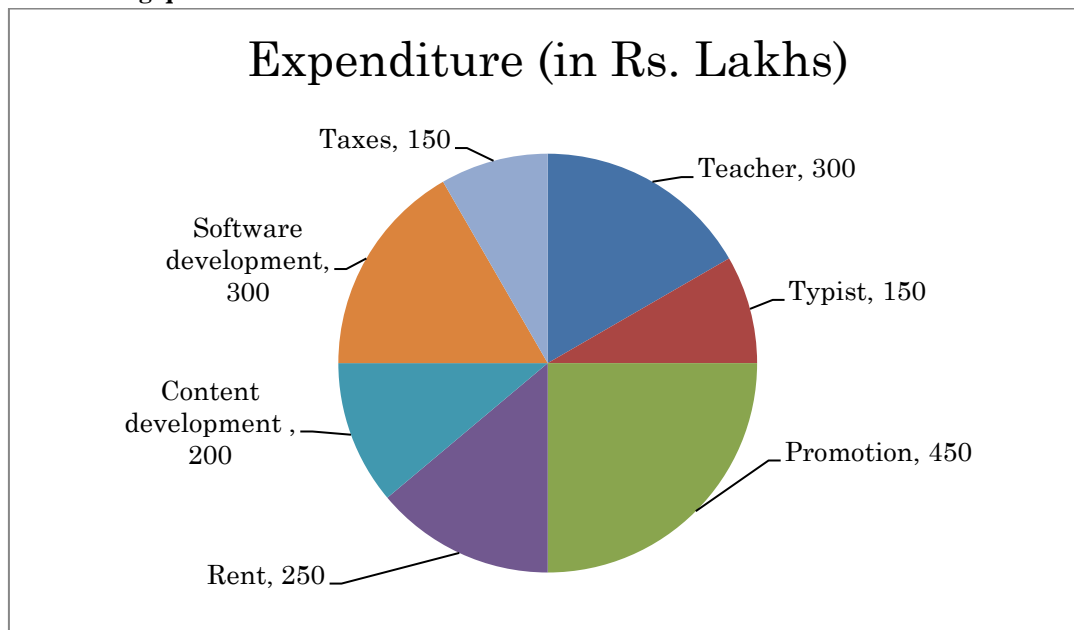
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b) Rs. 4 Crore

c) Rs. 6 Crore

d) Rs. 12 Crore

Direction (9–12): The pie chart shows the breakup of expenditure of IBPS Guide for the year 2020. Study the diagram and answer the following questions.



9. The highest expenditure is for which category?

- a) Rent
- b) Promotion
- c) Content development
- d) Software development

10. What is the total expenditure (in Rs. lakhs)?

- a) 1800
- b) 1900

c) 1200

d) 1100

11. The measure of the central angle of the sector representing Teacher is _____ degrees.

- a) 50
- b) 55
- c) 65
- d) 60

12. Expenditure on Content development and Software



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development constitute what percent of total expenditure?

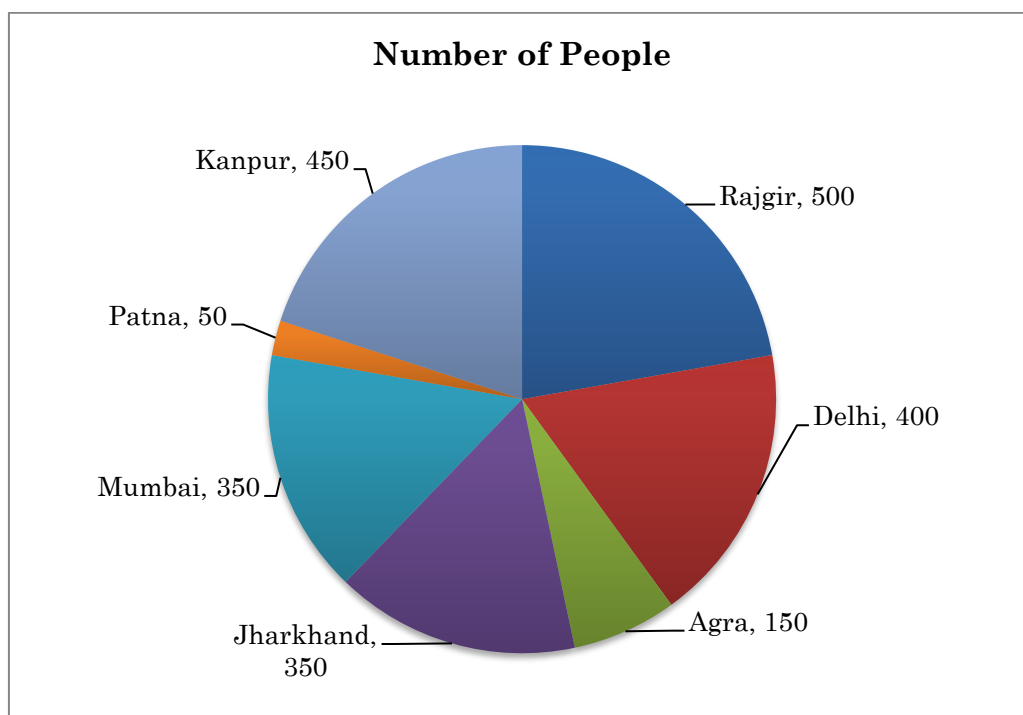
a) 13.33%

b) 12.25%

c) 33.33%

d) 27.77%

Direction (13–16): The pie chart shows the results of an online survey which asked people about their favourite travel destination. Study the diagram and answer the following question.



13. Which travel destination is the favourite of most people surveyed?

a) Delhi

b) Kanpur

c) Jharkhand

d) Rajgir

to the survey?

a) 1850

b) 2350

c) 2250

d) 1950

14. What is the total number of people who have responded

15. The measure of the central angle of the sector representing number of people whose favorite travel



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destination is Patna is _____ (in degree).

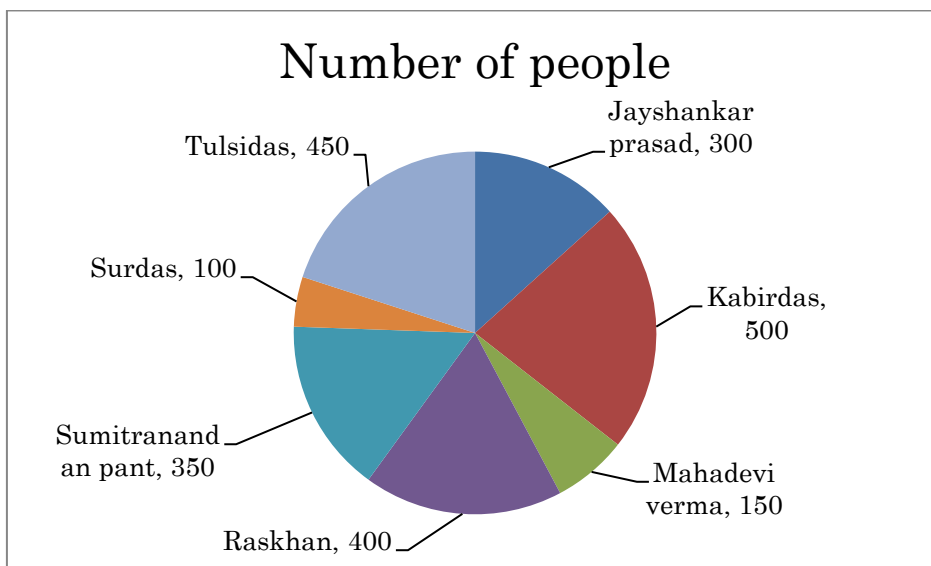
- a) 11
- b) 13
- c) 17
- d) 8

16. Respondents who said their favourite travel destination

is Rajgir and those who said their favourite travel destination is Delhi constitute what percent of the total respondents?

- a) 55%
- b) 33%
- c) 20%
- d) 40%

Direction(17–20): The pie chart shows the results of an online survey which asked people about their favourite author. Study the diagram and answer the following question



17. Which author is the favourite of most people surveyed?

- a) Surdas
- b) Kabirdas
- c) Raskhan
- d) Sumitranandan pant

18. Respondents who said their favourite author is Jayshankar prasad and those who said their favourite author is Kabirdas constitute what percent of the total respondents?

- a) 35.30%
- b) 12.20%
- c) 34.44%



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d) 35.55%

19. The measure of the central angle of the sector representing number of people whose favourite author is Raskhan is _____ degrees.

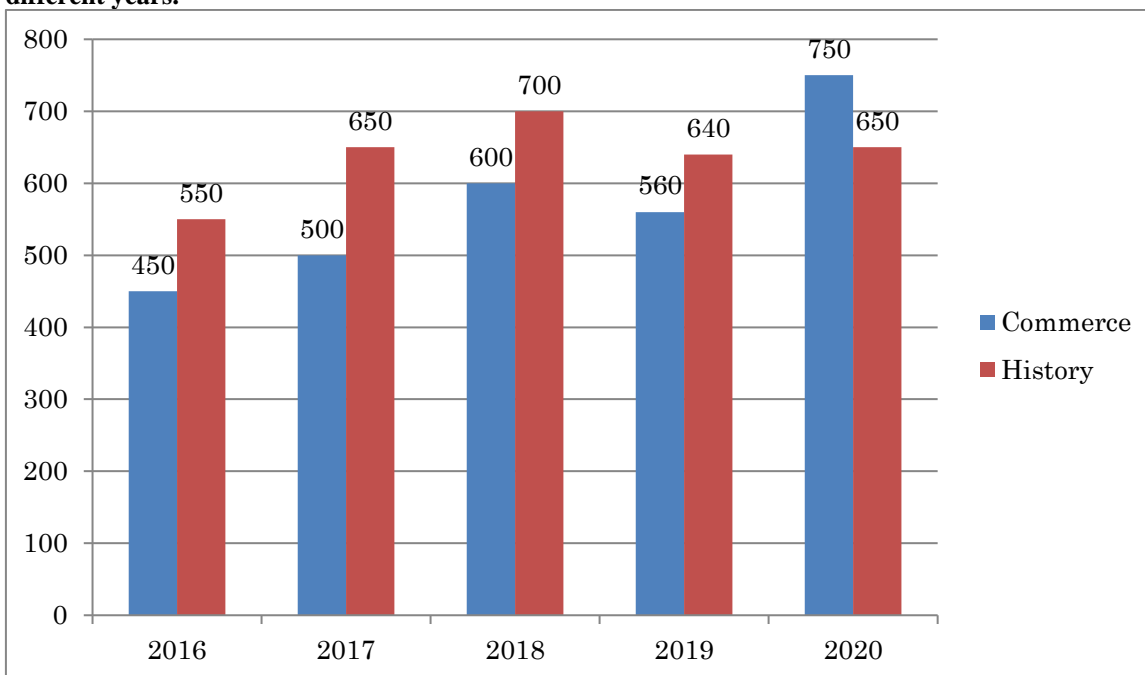
- a) 50
- b) 64
- c) 66

d) 62

20. What is the total number of people who have responded to the survey?

- a) 2250
- b) 2300
- c) 2450
- d) 2500

Direction (21 – 24): The given bar graph represents the number of students from commerce and history streams from a school in different years.



21. In which year the number of history students is 30% more than that of commerce?

- a) 2020
- b) 2018
- c) 2017

d) 2019

22. The total number of history students in 2016, 2018 and 2020 is what percentage less than that of commerce in the given five years (correct to one decimal place)?

a) 23.2%



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b) 33.6%

c) 35.4%

d) 37.8%

23. The average number of commerce students in 2016, 2018 and 2020 is what percentage more than the number of history students in 2016?

a) $13\frac{1}{9}\%$

b) $29\frac{1}{1}\%$

c) $9\frac{1}{11}\%$

d) $78\frac{1}{9}\%$

24. What is the ratio of the total number of commerce students in 2016 and 2020 to that of history in 2017 and 2020?

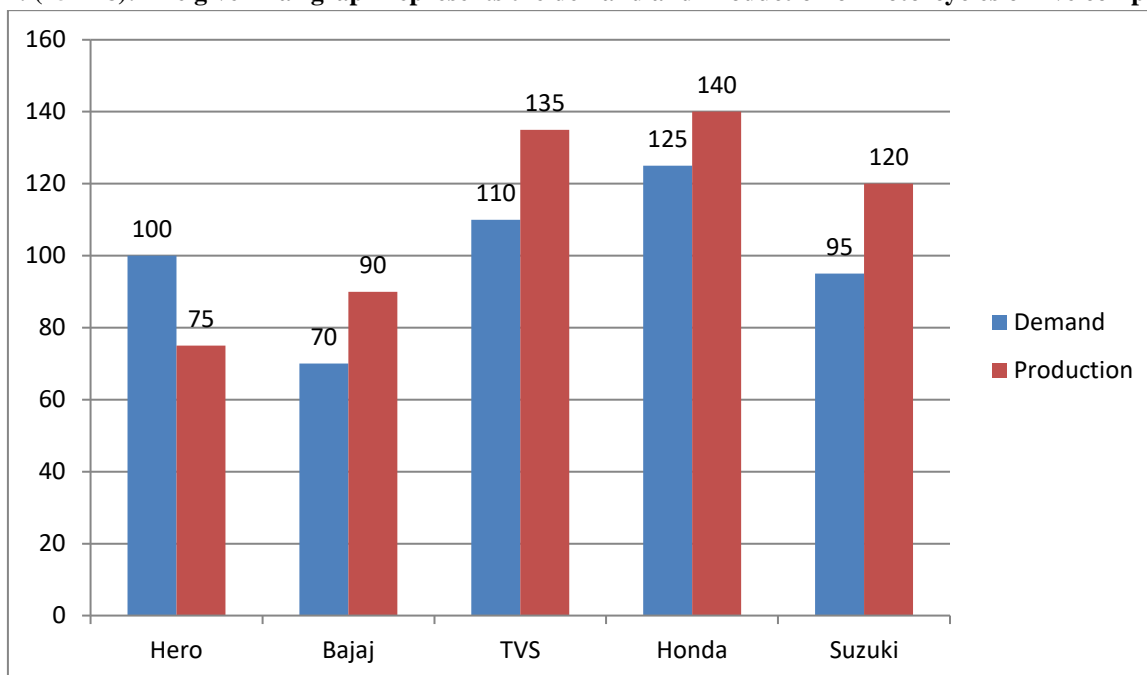
a) 19 : 20

b) 18 : 19

c) 12 : 13

d) 10 : 11

Direction: (25 - 28): The given Bar graph represents the demand and Production of motorcycles of five companies (in lakhs).



25. The average Production of motorcycles of companies Bajaj, TVS and Suzuki taken together is what percent less than the demand of motorcycles of company Honda?

a) 8%

b) 6.7%

c) 7.3%



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d) 5.6%

26. Which company has the Production of motorcycles approximately 23% more than the demand?

- a) Bajaj
- b) TVS
- c) Honda
- d) Suzuki

27. The total Production of motorcycles of companies Bajaj and Honda taken together is what percent of the demand of motorcycles of all the companies taken together?

Direction: (29 - 32) The given Bar Graph presents the number of students enrolled for a vocational course in institutes IBPS Guide and Guidely during a period of five years. Institute

a) 46%

b) 48%

c) 58%

d) 50%

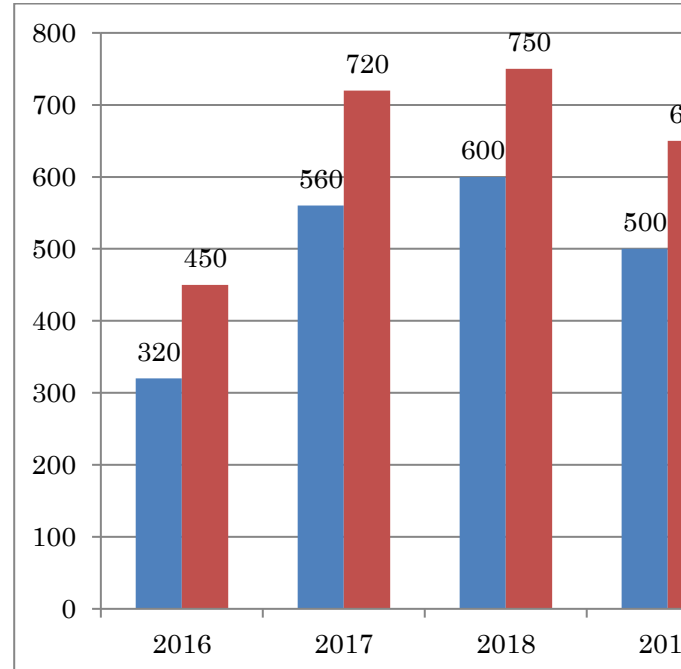
28. What is the ratio of the total demand of motorcycles of companies Hero and Honda taken together to the Production of motorcycles of company TVS?

a) 11 : 9

b) 7 : 5

c) 5 : 3

d) 8 : 7



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29. In which year the number of students enrolled in Guidely is approximately 28% more than the number of students enrolled in IBPS Guide in the same year?

- a) 2017
- b) 2020
- c) 2018
- d) 2019

30. The average number of students (per year) enrolled in Guidely during 2017, 2018 and 2020 is what percentage more than the number of students enrolled in IBPS Guide during 2019?

- a) 28
- b) 35
- c) 32
- d) 12

31. The total number of students enrolled in IBPS Guide during 2016, 2018 and 2020 is what percentage (correct to one decimal place) of the total number of students enrolled in Guidely during the five years?

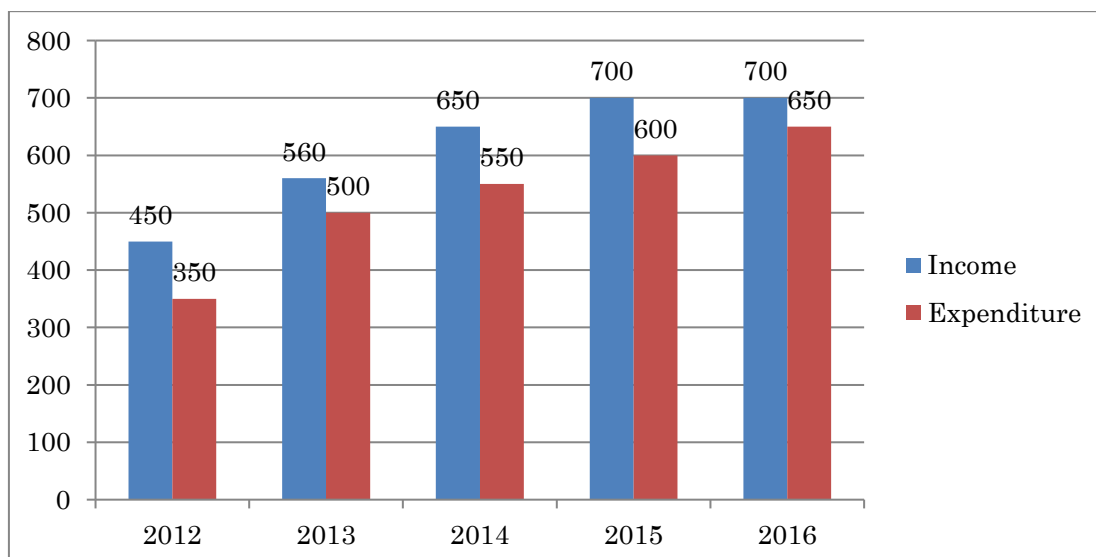
- a) 44.4
- b) 47.7
- c) 54.6
- d) 42.8

32. What is the ratio of the total numbers of students enrolled in IBPS Guide during 2017 and 2020 to that of students enrolled in Guidely during 2016 and 2018?

- a) 9 : 10
- b) 17 : 18
- c) 21 : 22
- d) 15 : 16

Direction (33 – 36): The given Bar Graph presents Income and Expenditure (in crores of Rupees) of a company for the five years, 2012 to 2016.

Income and Expenditure (in Rs crores) of a company in 5 years-



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33. The average Income (per year) of the company in five years is what percentage more than its Expenditure in 2013?

- a) 34.2
- b) 30.8
- c) 14.6
- d) 22.4

34. The total Income of the company in 2013, 2015 and 2016 is approximately what percent less than the total Expenditure in the five years?

- a) 26
- b) 25
- c) 23

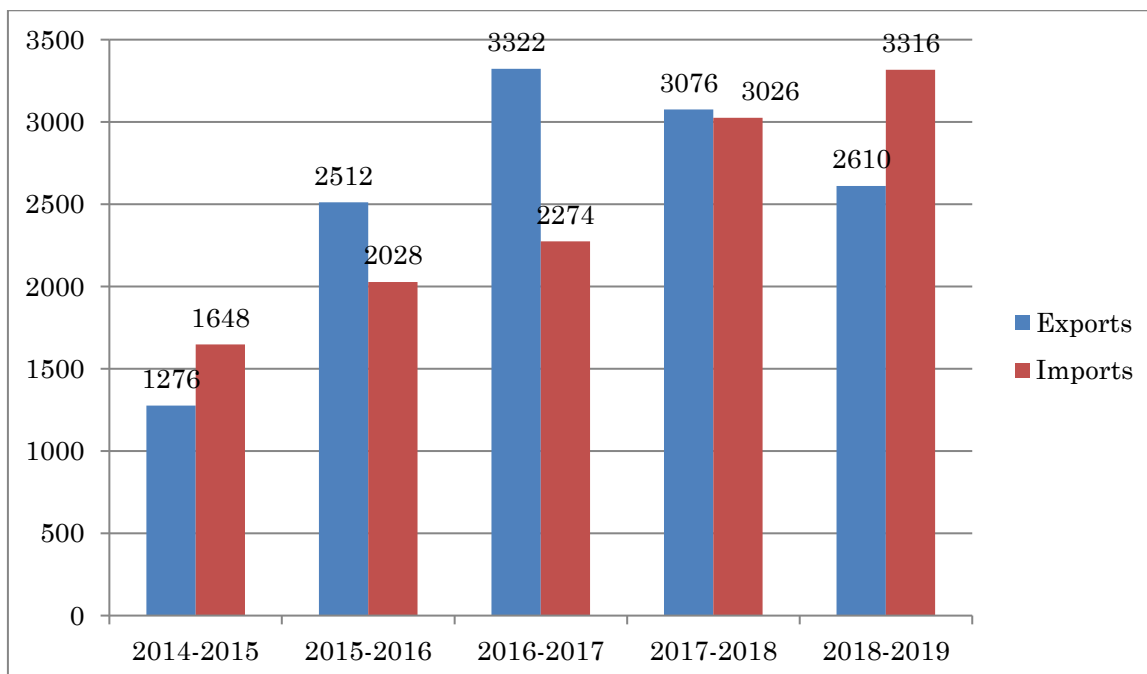
35. In which year is the Expenditure more than 40% as compared to the Expenditure in the previous year?

- a) 2016
- b) 2013
- c) 2018
- d) 2017

36. What is the ratio of total Expenditure to total Income of the company in 2012, 2014 and 2015?

- a) 11:17
- b) 13:14
- c) 9:10
- d) 5:6

Direction: (37 - 40) The given Bar Graph presents the Imports and Exports of an item (in tonnes) manufactured by a company for the five financial years, 2014–2015 to 2018–2019



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37. In which financial year the percentage increase in total Exports and Imports is the highest in comparison to its previous financial year?

- a) 2015 – 2016
- b) 2017 – 2018
- c) 2014 – 2015
- d) 2016 – 2017

38. What is the ratio of total Imports to total Exports during 2014-2015, 2016-2017 and 2018-2019?

- a) 3556 : 3023
- b) 3411 : 3141
- c) 3619 : 3604
- d) 3175 : 4013

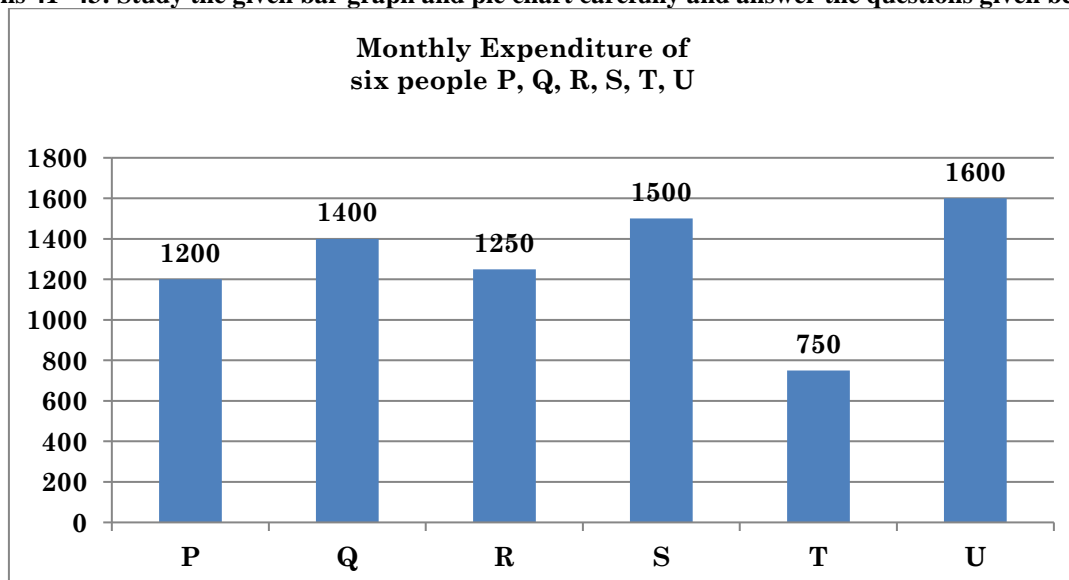
39. What is the average of total Import and Export (in tons) during the five financial year?

- a) 5279.5
- b) 5017.6
- c) 4552.4
- d) 5325.9

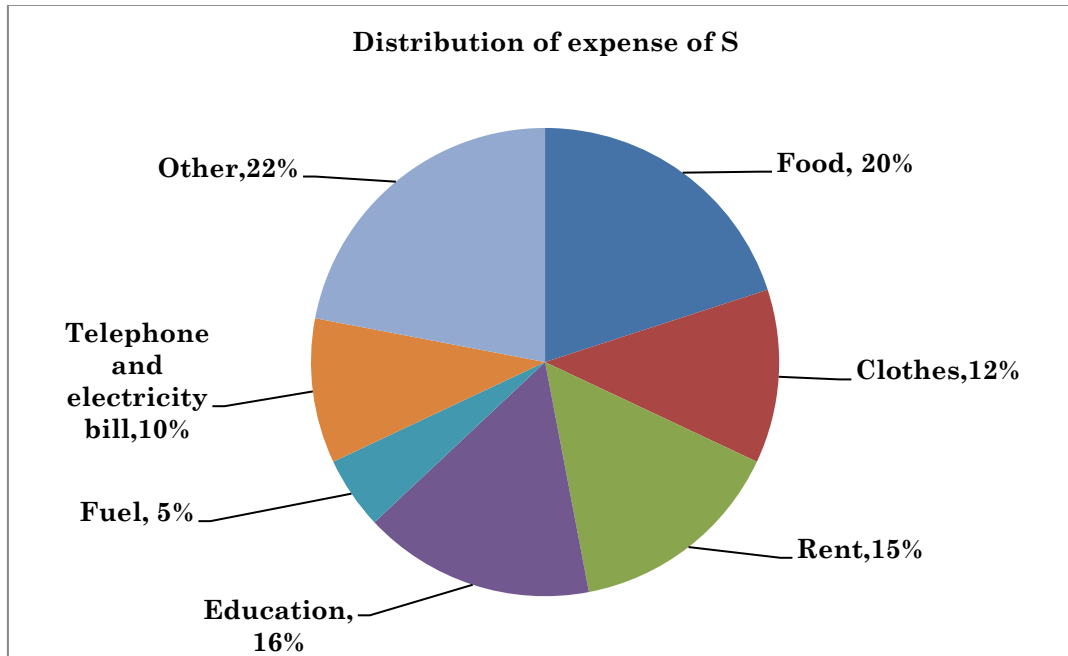
40. In which financial year the total of the Exports and Imports is the lowest?

- a) 2015–2016
- b) 2014–2015
- c) 2016–2017
- d) 2018–2019

Directions 41- 43: Study the given bar graph and pie chart carefully and answer the questions given below it.



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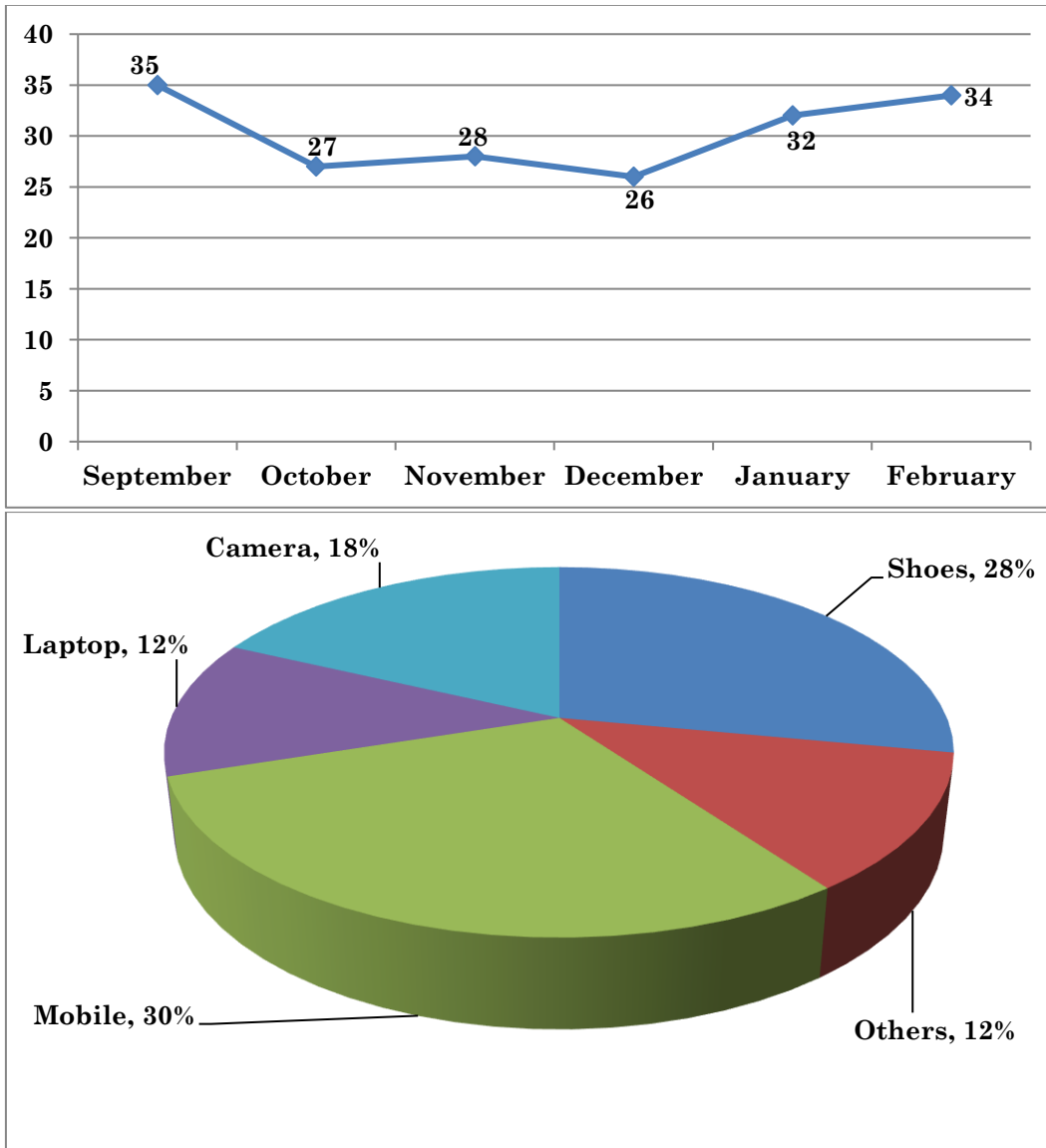


41. If the expenditure of S on food was 20% more than the average expenditure of all the six persons on food, then the average monthly expenditure on food for all the given persons is.
- a) Rs.321
b) Rs.250
c) Rs.244
d) Rs.300
42. What is the total expenditure of S on rent, education and telephone and electricity bills?
- a) Rs.721
43. If Q and U spent respectively 10% and 15% of their expenditure on clothes, then by what percentage was the expenditure of U on clothes more than that of Q?
- a) 54.25%
b) 60.68%
c) 79.52%
d) 71.43%
- b) Rs.456
c) Rs.615
d) Rs.801

Directions (44 -47): Study the following graph and answer the following questions: (India's export in \$billions)



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44. The export of Shoes and Laptop together in the month of January is approximately what percent of the exports of Camera and others in the month of September?

a) 129%
b) 134%
c) 122%
d) 118%

45. What is the average export of Mobile industry over the period?

a) 12.32 billion

b) 9.32 billion
c) 11.84 billion
d) None of these

46. If the export in March is increased by 10% in comparison to previous month, then what is the amount of increase(in billion) in Shoes industry?

a) 1.325
b) 0.952
c) 2.426
d) Data insufficient



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47. The export of Camera in February is what percent greater than others in September?

a) 38.4%

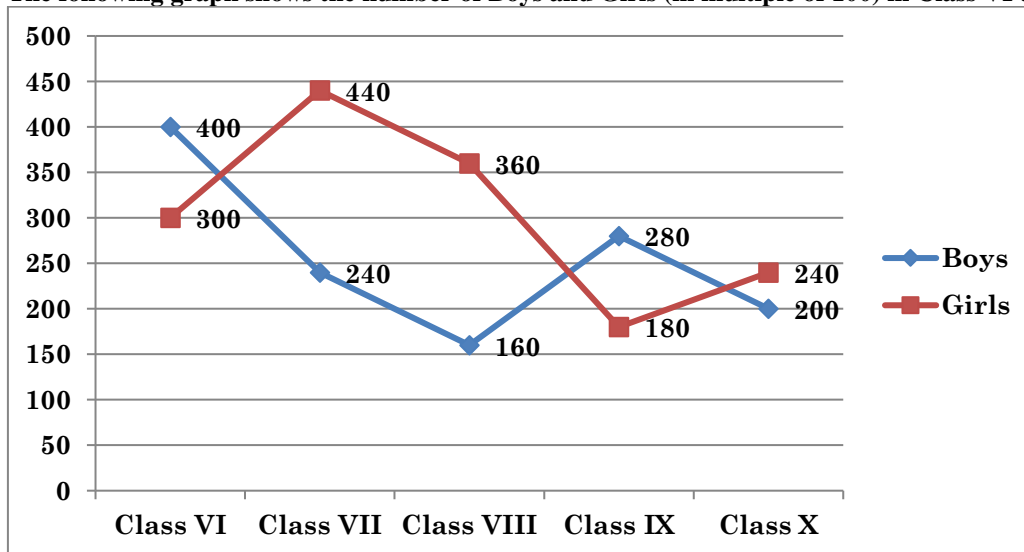
b) 45.7%

c) 37.6%

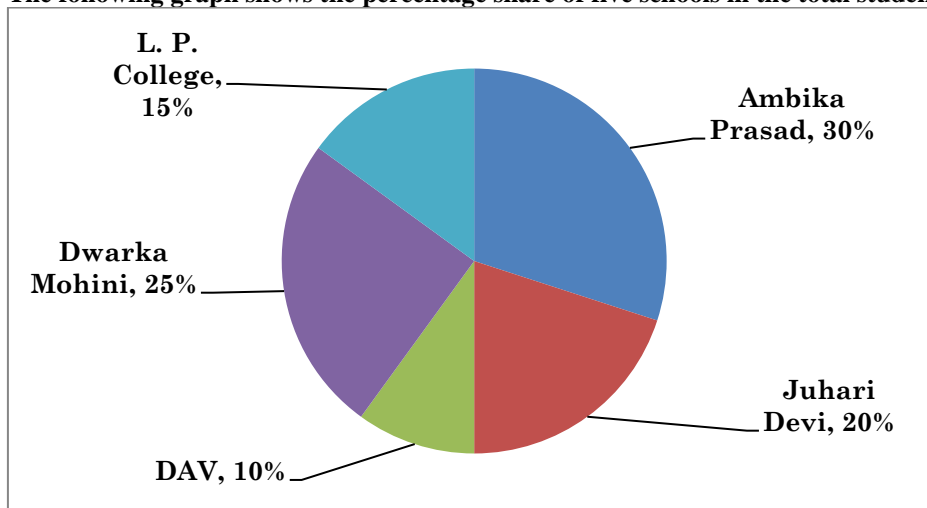
d) 44.6%

Directions 48 -50: Study the following table carefully and answer the questions given below it

The following graph shows the number of Boys and Girls (in multiple of 100) in Class VI to Class X.



The following graph shows the percentage share of five schools in the total students studying in that class.



Note:

Total students = Boys + Girls

48. If the number of boys studying in School DwarkaMohini is thrice the number of girls studying in

School DwarkaMohini, what is the total number of boys studying in School DwarkaMohini?

a) 36,111



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- b) 52,500
- c) 48,745
- d) 55,321

49. The total number of girls studying in Class VII in School Juhari Devi is 11000. What is its approximate percentage share in the number of boys studying in Class VII.

- a) 13%
- b) 11%

- c) 17%
- d) 14%

50. What is the ratio of number of boys in School Ambika Prasad to the number of girls in School Dwarka Mohini?

- a) 13 : 15
- b) 17 : 23
- c) 20 : 26
- d) can't be determined

ANSWERS

1) Answer: B

⇒ Total cultivation area = 3000 acres
⇒ Cultivation area for Tomato = 17% of total cultivation area
= 17% of 3000
⇒ Cultivation area for Tomato = 510 Acre

2) Answer: A

⇒ Total cultivation area = 3000 acres
⇒ Cultivation area for Potato = 40% of total cultivation area
⇒ Cultivation area for Brinjal = 15% of total cultivation area
⇒ Cultivation area for Potato and Brinjal = (40 + 15)% of total cultivation area
⇒ Cultivation area for Potato and Brinjal = 55% of 3000
∴ Cultivation area for Potato and Brinjal = 1650 Acre

3) Answer: D

⇒ Total cultivation area = 3000 acres
⇒ Cultivation area for Radish = 5% of total cultivation area
⇒ Cultivation area for Tomato = 17% of total cultivation area
⇒ Cultivation area for Cabbage = 10% of total cultivation area
⇒ Cultivation area for Radish, Tomato and Cabbage = (5 + 17 + 10) % of total cultivation area
⇒ Cultivation area for Radish, Tomato and Cabbage = 32% of 3000
∴ Cultivation area for Radish, Tomato and Cabbage = 960 Acre

4) Answer: C

⇒ Total cultivation area = 3000 acres
⇒ Cultivation area for Carrot = 10% of total cultivation area
⇒ Cultivation area for Tomato = 17% of total cultivation area
⇒ Cultivation area for Carrot and Tomato = (10 + 17) % of total cultivation area
⇒ Cultivation area for Carrot and Tomato = 27% of 3000
∴ Cultivation area for Carrot and Tomato = 810 Acre

5) Answer: C

Total funds collected = Rs. 200 crore
∴ Fund collected through Ebooks = Rs. (200 × 2/100) crore
= Rs. 4 crore
∴ Funds collected through AdSense = Rs. (200 × 10/100) = Rs. 20 crore
∴ the amount of fund collected through Ebooks and AdSense together,
⇒ Rs. (4 + 20) crore
⇒ Rs. 24 crore

6) Answer: A

Total amount collected = Rs. 200 crore
∴ Amount collected from Pendrive Course = $200 \times \frac{18}{100}$
= Rs. 36 crore

7) Answer: D

Total amount collected = Rs. 200 crore

∴ Amount collected from Online exams = $200 \times \frac{40}{100}$
= Rs. 80 crore



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\therefore Amount collected from Online classes = $200 \times 30/100$
=Rs. 60 crore

\therefore Required difference = Rs. (80 - 60) crore = Rs. 20 crore

8) Answer: B

Total funds collected = Rs. 200 crore

\therefore Funds collected through Adsense = Rs. $(200 \times 10/100)$ =
Rs. 20 crore

\therefore total amount invested in research development facilities =
 $20 \times 1/5$ =Rs. 4 crore

9) Answer: B

As shown in the pie chart, the value of Promotion is 450 lakhs which is greater than any other expenditure.

So answer = Promotion

10) Answer: A

Total Expenditure = Expenditure of (Teacher + Typist + Promotion + Rent + Content development + Software development + Taxes)

\therefore Total Expenditure = $300 + 150 + 450 + 250 + 200 + 300 + 150 = 1800$

11) Answer: D

\therefore The central angle of the sector representing Teacher =
 $300/1800 \times 360^\circ = 60^\circ$

12) Answer: D

Total expenditure on Content development and Software development = $200 + 300 = 500$

\therefore Required Percentage = $500/1800 \times 100 = 500/18 = 27.77\%$

13) Answer: D

According to the graph, the highest number of people (500) says that their favourite travel destination is Rajgir.

14) Answer: C

Number of people whose favourite travel destination is

Rajgir = 500

Delhi = 400

Agra = 150

Jharkhand = 350

Mumbai = 350

Patna = 50

Kanpur = 450

\therefore Total number of people who responded to the survey =
2250

15) Answer: D

Total number of people who responded to the survey =
2250

Number of people whose favourite travel destination is
Patna = 50

\therefore Measure of central angle = $(50/2250) \times 360^\circ = 8^\circ$

16) Answer: D

Total number of people who responded to the survey =
2250

Number of people whose favourite travel destination is
Rajgir = 500

Number of people whose favourite travel destination is
Delhi = 400

Number of people whose favourite travel destination is
Rajgir + Delhi = $500 + 400 = 900$

\therefore Required percentage = $(900/2250) \times 100 = 40\%$



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17) Answer: B

According to the survey, author Kabirdas(500) is the favorite of most people.

18) Answer: D

Total respondents = 2250

Respondents who say their favourite author is Jayshankarprasad = 300

& respondents who say their favourite author is Kabirdas = 500

(Jayshankarprasad + Kabirdas) = 800

\therefore Required Percentage = $800/2250 \times 100 = 35.55\%$

19) Answer: B

2250 people represent = 360°

\Rightarrow 1 people represent = $360^\circ/2250$

\therefore 400 people represent = $400/2250 \times 360^\circ = 64^\circ$

20) Answer: A

\therefore Total number of people who have responded to the survey = Jayshankarprasad + Kabirdas + Mahadeviverma + Raskhan + Sumitranandan pant + Surdas + Tulsidas = 2250

21) Answer: C

Go through options

In 2017,

Required percentage = $(650 - 500)/500 \times 100 = 30\%$

22) Answer: B

Total number of history students in 2016, 2018 and 2020 = $550 + 700 + 650 = 1900$

Total number of commerce students in five years = $450 + 500 + 600 + 560 + 750 = 2860$

Required percentage = $(2860 - 1900)/2860 \times 100$

= $960/2860 \times 100$

= 33.6%

23) Answer: C

The average number of commerce students in 2016, 2018 and 2020 = $(450 + 600 + 750)/3 = 600$

Number of history students in 2016 = 550

Required percentage = $(600 - 550)/550 \times 100$

= $50/550 \times 100 = 9\frac{1}{11}\%$

24) Answer: C

Total number of students of commerce in 2016 and 2020 = $450 + 750 = 1200$

Total number of students of history in 2017 and 2020 = $650 + 650 = 1300$

Required ratio = $1200 : 1300 = 12 : 13$

25) Answer: A

Average production of motorcycle of companies Bajaj, TVS and Suzuki = $(90 + 135 + 120) / 3 = 115$ lakhs

Demand of company Honda = 125 lakhs

Required percentage

= $(125 - 115)/125 \times 100$

= $10/125 \times 100 = 8\%$

26) Answer: B

For company TVS,

Required percentage



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$$= (135 - 110) / 110 \times 100$$

$$= 22.7\% = 23\% \text{ (approx)}$$

27) Answer: A

The total production of motorcycles of companies Bajaj and Honda = $90 + 140 = 230$ lakhs

Demand of all companies taken together = $100 + 70 + 110 + 125 + 95 = 500$ lakhs

$$\text{Required percentage} = 230 / 500 \times 100$$

$$= 46\%$$

28) Answer: C

Total demand of motorcycles of companies Hero and Honda = $100 + 125 = 225$ lakhs

The production of motorcycles of company TVS = 135 lakhs

$$\text{Required Ratio} = 225 : 135 = 5 : 3$$

29) Answer: A

In year 2017

Required percentage

$$= (720 - 560) / 560 \times 100$$

$$= 160 / 560 \times 100 = 28.5\%$$

30) Answer: A

Total average number of students enrolled in Guidely during 2017, 2018, and 2020

$$= (720 + 750 + 450) / 3 = 640$$

The number of students enrolled in IBPS Guide during 2019 = 500

$$\text{Required percentage} = (640 - 500) / 500 \times 100 = 28\%$$

31) Answer: B

Total number of students enrolled in IBPS Guide during 2016, 2018, and 2020 = $320 + 600 + 520 = 1440$

Total number of students enrolled in guidely during the five years = $450 + 720 + 750 + 650 + 450 = 3020$

$$\text{Required percentage} = 1440 / 3020 \times 100 = 47.7\%$$

32) Answer: A

Total number of students enrolled in IBPS Guide during 2017 and 2020 = $560 + 520 = 1080$

Total number of students enrolled in guidely during 2016 and 2018 = $450 + 750 = 1200$

$$\text{Required Ratio} = 1080 : 1200 = 9 : 10$$

33) Answer: D

Average Income of the company in five year = $(450 + 560 + 650 + 700 + 700) / 5$

$$= 3060 / 5 = 612$$

Required percentage

$$= (612 - 500) / 500 \times 100$$

$$= 22.4\%$$

34) Answer: A

Total income of the company in 2013, 2015 and 2016 = $560 + 700 + 700 = 1960$

Total expenditure in the five year = $350 + 500 + 550 + 600 + 650 = 2650$

$$\text{Required percentage} = (2650 - 1960) / 2650 \times 100 = 26\%$$



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35) Answer: B

In 2013,

$$= (500 - 350) / 350 \times 100 = 42.8\%$$

36) Answer: D

$$\text{Total expenditure in 2012, 2014 and 2015} = 350 + 550 + 600 = 1500$$

$$\text{Total income in 2012, 2014 and 2015} = 450 + 650 + 700 = 1800$$

$$\text{Required ratio} = 1500 : 1800 = 5 : 6$$

37) Answer: A

From the bar graph, total exports and import's growth is highest in 2015-2016

$$\text{Total exports and imports in year 2015-2016} = 4540$$

$$\text{Total exports and imports in year 2014-2015} = 2904$$

$$\text{Percentage increase} = \frac{1636}{2904} \times 100 = 56\%$$

38) Answer: C

$$\text{Total imports in 2014-15, 2016-17 and 2018-19} = 1648 + 2274 + 3316 = 7238$$

$$\text{Total exports in 2014-15, 2016-17 and 2018-19} = 1276 + 3322 + 2610 = 7208$$

$$\text{Required ratio} = 7238 : 7208 = 3619 : 3604$$

39) Answer: B

Total import and export during the five financial years

$$= 1276 + 1648 + 2512 + 2028 + 3322 + 2274 + 3076 + 3026 + 2610 + 3316 = 25088$$

$$\text{Average} = \frac{25088}{5} = 5017.6$$

40) Answer: B

From the given bar graph in 2014-15 year total exports and imports is lowest

41) Answer: b

Total expenditure of S = 1500

Expense of S on food = 20% of 1500 = 300

Given,

Let the average expenditure of all six people on food be x.

Given,

$$300 = x \left(1 + \frac{20}{100} \right) \\ \Rightarrow x = 250$$

42) Answer: c

Total expenditure of S = Rs. 1500

Expenditure on rent, education and telephone and electricity bills

$$= (15 + 16 + 10)\% \text{ of } 1500 = 41\% \text{ of } 1500 = 615$$

43) Answer: d

Total expenditure of Q = 1400

Expenditure on clothes = 10% of 1400 = 140

Total expenditure of U = 1600

Expenditure on clothes = 15% of 1600 = 240

% by which expenditure of U on clothes is greater than that of Q = $\frac{240 - 140}{140} \times 100 = 71.43\%$

44) Answer: c

Export of Shoes and Laptop together in January = (28 + 12)

% of 32 = $40/100 \times 32 = 12.8$ billion

Exports of Camera and others in the month of September =

(18 + 12) % of 35 = $30/100 \times 35 = 10.5$ billion

Required percentage = $(12.8/10.5) \times 100 = 122\%$ (approx)

45) Answer: d

Total exports = 35 + 27 + 28 + 26 + 32 + 34 = 182 billion

Exports from Mobile industry = 30 % of 182 = 54.6 billion

54.6 billion is divided amongst 6 months

Hence average export from Mobile industry = $54.6/6 = 9.1$ billion

46) Answer: b

Export in February = 34 Billion

\therefore Export in March = $34 \times 1.1 = 37.4$ Billion

\Rightarrow Increase in export of Shoes = $(37.4 - 34) \times (28/100) = 0.952$ Billion

47) Answer: b



Data Interpretation Questions For Railway Exams

$$\text{Export of Camera in February} = \frac{18}{100} \times 34 = 6.12$$

$$\text{Export of others in September} = \frac{12}{100} \times 35 = 4.2$$

$$\text{Required percentage} = \frac{6.12-4.2}{4.2} \times 100 = 45.7\%$$

48) Answer: b

Total number of students studying

$$\Rightarrow 70000 + 68000 + 52000 + 46000 + 44000 = 2,80,000$$

Total number of students in School DwarkaMohini from Class VI to Class X = 25% of 2,80,000 = 70000.

Let number of girls in School DwarkaMohini = 'x'

\Rightarrow Number of boys in School DwarkaMohini = '3x'

Thus, total number of students in School DwarkaMohini = '4x'.

$$\Rightarrow 4x = 70000$$

$$\Rightarrow x = 17500$$

$$\therefore \text{Number of boys studying in School DwarkaMohini} = 3 \times 17500 = 52,500.$$

49) Answer: b

Total number of students studying in Class VII = 68000

Total number of students studying in Class VII in School Juhari Devi = 20% of 68000 = 13600

Total number of girls studying in Class VII in School Juhari Devi = 11000.

Thus,

Total number of boys studying in Class VII in School Juhari Devi = 13600 – 11000 = 2600

Total number of boys studying in Class VII = 24000

Thus, the required percentage = $(2600/24000) \times 100 = 10.83\% \approx 11\%$

50) Answer: d

The number of boys and girls cannot be known, so the ratio cannot be known.

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