MATHS

BOOKS - RD SHARMA MATHS (ENGLISH)

DATA HANDLING-III (PIE CHARTS OR CIRCLE GRAPHS)

Others

1. The number of students in a hostel, speaking different languages is given below. Display the data in a pie chart.

2. In the month of July 2004, a house holder spent his monthly salary amounting to $Rs.$ 7200 on different items as given below:

Items, Clothing, Food, House Rent, Education, Misc. Amount spent (in Rs.):

600, 4000, 1200, 400, 1000 Represent the information in the form of a pie-chart.

3. The number of students admitted in different faculties of a college are given below:

Faculty, Science, Art, Commerce, Law, Edu., Total No. of Student, 1000, 1200, 650, 450, 300, 3600 Draw a pie-chart to represent the above information.

4. Draw a pie-diagram to represent the following data on the proposed outlay during the fourth five-year plan. Items, Agriculture, Ind. and Minerals, Irrigation & Power, Communication, Miscellaneous Rupees (in crores), 6000, 4000, 2500, 4500, 3000

5. The following data relates to the cost of construction of a house in Delhi.

Draw a pie-diagram to represent the given data.

ITEMS	EXPENDITURE
cements	30 %
Steel	10 %
Bricks	10 %
Timber	15 %
Labour	25 %
Misc.	10 %

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6. Draw a pie-diagram for the following data of expenditure pattern in a family: Items, Food, Clothing, Rent, Edu., Misc. Expenditure (in Rs.), 4000, 2000, 1500, 1500, 1000

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7. The following data shows the number of students opting different subject in a college: Subjects, English, Maths, Physics, Chemistry, Eco., Commerce No. of Students, 45, 60, 20, 30,

10, 15 Construct a pie-diagram to represent the above data.

8. The number of hours, spent by a school boy on different activities in a working day, is given below: Activities : Sleep, School, Home, Play, others, Total No. Of hours : 8, 7, 4, 2, 3, 24 Present the information in the form of a pie-chart.

9. Employees of a company have been categorized according to their religions as given below: Religions, Hindu, Muslim, Sikh, Christian, Total No. of workers, 420, 300, 225, 105, 1050 Draw a pie-chart to represent the above information.

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10. In one day the sales (in rupees) of different items of a baker's shop are given below: Items,

Ordinary bread, Fruit bread, Cakes and Pastries, Biscuits, Other, Total Sales (in Rs.), 260, 40, 100, 60, 20, 480 Draw a pie-chart representing the above sales.

11. The following data shows the expenditure of a person on different items during a month. Represent the data by a pie-chart. Items of expenditure, Rent, Education, Food, Clothing,

Others Amount (in Rs.), 2700, 1800, 2400, 1500, 2400

12. The percentages of various categories of workers in a state are given in the following table. Categories, Cultivators, Agricultural Labourers, Industrial Workers, Commercial Workers, Others % of workers, 40, 25, 12.5, 10, 12.5 Present the information in the form a pie-chart.

13. The following table shows the expenditure incurred by a publisher in publishing a book: Items, Paper, Printing, Binding, Advertishing, Misc. Expenditure (in %), 35%, 20%, 10%, 5%, 30% Present the above data in the form of a pie-chart.

14. Percentage of the different products of a village in a particular district are given below. Draw a pie chart representing this information. Items, Wheat, Pulses, Jwar, Grounnuts, Vegetables, Total %, $\dfrac{125}{3}$, $\dfrac{125}{6}$, $\dfrac{25}{2}$, $\dfrac{50}{3}$, $\dfrac{50}{3}$, 100

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15. Draw a pie-diagram for the following data of expenditure pattern in a family: Items, Food,

Clothing, Rent, Education, Unforeseen events, Medicine Expenditure (in percent), 40%, 20%, 10%, 10%, 15%, 5%

16. Draw a pie-diagram of the area of continents of the world given in the following table: Continents, Asia, U.S.S.R., Africa, Europe, North America, South America, Australia Area (in million sq. km), 26.9, 20.5, 30.3, 4.9, 24.3, 17.9, 8.5

17. The following data gives the amount spent on the construction of a house. Draw a pie diagram. Items, Cement, Timber, Bricks, Labour, Steel, Misc. Expenditure (in thousand Rs), 60, 30, 45, 75, 45, 45

18. The following table shows how a student spends his pocket money during the course of

a month. Represent it by a pie-diagram. Items, Food, Entertainment, Other expenditure, Savings Expenditure, 40%, 25%, 20%, 15%

19. Items of expenditure Expenditure Family A Family B Food 4000 6400 Clothing 2500 480 Rent 1500 3200 Education 400 1000 Miscellaneous 1600 600 Total 10000 11680

20. Following data gives the break up of the cost of production of a book: Printing Paper Binding charges Advertisement Royalty Misc. 30% 15% 15% 20% 10% 15% Draw a pie-diagram depicting the above information.

21. Represent the following data with the help of a pie-diagram: Items, Wheat, Rice, Tea

Production (in metric tons), 3280, 1840, 900

22. Draw a pie-diagram representing the relative frequencies (expressed as percentage) of the eight classes as given below: 12.6, 18.2, 17.5, 20.3, 2.8, 4.2, 9.8, 14.7

23. Following is the break up of the expenditure of a family on different items of consumption.: Items, Food, Clothing, Rent, Education, Fuel etc., Medicine, Misc. Expenditure (in Rs), 1600, 200, 600, 150, 100, 80, 270 Draw a pie-diagram to represent the above data.

24. Draw a pie-diagram for the following data of the investment pattern in a five year plan:

Agriculture , Irrigation and Power, Small Industries, Transport, Social service, Misc.

14 % , 16 % , 29 % , 17 % , 16 % , 8 %

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25. The pie-chart given in Figure, represents the expenditure on different items in constructing a flat in a metro city.

(i)Find the percentage expenditure on different items by reading the pie-chart. (ii) If the cost of flat is Rs. 5,40,000, Find the following: (i)The expenditure incurred on steel and cement separately. (ii)Difference of expenditure incurred on timber and bricks.
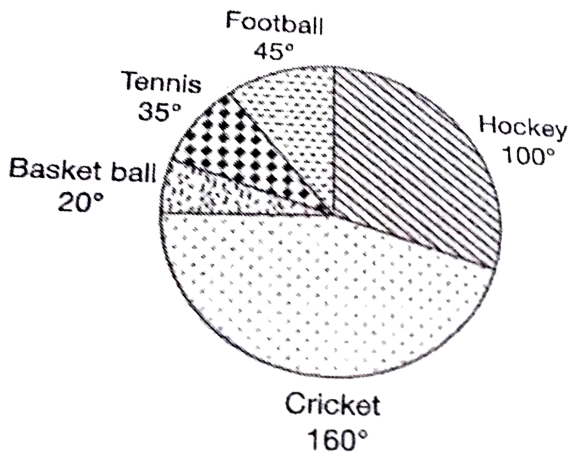
26. The pie-chart shown in Figure represents the expenditures of a family on different items.If the total annual income of the family

is Rs.75,000, Find the expenditure on children education and also find savings by reading the pie-chart.

27. The following pie-chart represents the amount spent on different sports by a school administration in a calendar year.

Football
45°

Tennis
35°

Basket ball
20°

Hockey
100°

Cricket
160°

If the money spent on football is Rs. 9000, answer the following questions:

(i) If the amount spent on football was Rs. 9000, then how much more money was spent on hockey than on football ?

(ii) If the amount spent on football Rs. 9000, then what was the total amount spent on all sports ?

28. The following pie-chart represents the total number of valid votes obtained by four students who contested for school leadership. The total number of valid votes polled was 720. Answer the following questions by reading the pie-chart.

29. The following pie-chart gives the marks scored in an examination by a student in various subjects. If the total marks obtained by the student were 540, answer the following questions.

30. The following pie-chart shows the monthly expenditure of a family on food, clothing, rent, miscellaneous expenses and savings. If the

family spends Rs. 825 on clothing, answer the following questions: (i) What is the total monthly income of the family? (ii) What percent of the total income does the family save?

31. The pie-chart given in Figure represents the expenditure on different items in constructing a flat in Delhi. If the expenditure incurred on

cement is Rs. 112500. Find the following Total cost of the flat Expenditure incurred on labour.

32. The pie-chart given in Figure shows the annual agricultural production of an Indian state. If the total production of all the commodities is 81000 tonnes, find the production (in tonnes) of Wheat   (ii) Sugar (iii) Rice (iv) Maize (v) Gram

33. The following pie-chart shows the number of students admitted in different feculties of a college. If 1000 students are admitted in Science answer the following:

(i) What is the total number of students?

(ii) What is the ratio of students in science and arts?

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34. In Figure, the pie-chart shows the marks obtained by a student in an examination. If the student secures 440 marks in all, calculate his marks in each of the given subjects.

35. In Figure, the pie-chart shows the marks obtained by a student in various subjects. If the student scored 135 marks in mathematics,

find the total marks in all the subject. Also, find his score in individual subjects.

36. The following pie-chart shows the monthly expenditure of Shikha on various items. If she spends Rs. 16000 per month, answer the following questions: How much does she spend on rent? How much does she spend on education? What is the ratio of expenses on food and rent?

37. The pie chart (as shown in the figure) represents the amount spent on different sports by a sports club in a year. If the total money spent by the club on sports is Rs. 1,08,000, find the amount spent on each sport.

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