



MATHS

BOOKS - PSEB

DATA HANDLING

Exercise

1. For which of these would you use a histogram to show the data : The number of

letters for different areas in a postman's bag.

Give reasons for each



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2. For which of these would you use a histogram to show the data : The height of competitors in an athletics meet. Give reasons for each



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3. For which of these would you use a histogram to show the data : The number of cassettes produced by 5 companies. Give reasons for each



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4. For which of these would you use a histogram to show the data : The number of passengers boarding trains from 7:00 a.m. to 7:00 p.m. at a station. Give reasons for each



5. The shoppers who come to a departmental store are marked as: man (M), woman (W), boy (B) or girl (G). The following list gives the shoppers who came during the first hour in the morning: W W W G B W W M G G M M W W W W G B M W B G G M W W M M W W W M W B W G M W W W W G W M M W W M W G W M G W M M B G G W Make a frequency distribution table using tally marks. Draw a bar graph to illustrate it.



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6. The weekly wages of 30 workers in a factory are. 830, 835, 890, 810, 835, 836, 869, 845, 898, 890, 820, 860, 832, 833, 855, 845, 804, 808, 812, 840, 885, 835, 835, 836, 878, 840, 868, 890, 806, 840 Using tally marks make a frequency table with intervals as 800–810, 810–820 and so on



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7. Draw a histogram for the frequency table made for the data in Question 3, and answer the following questions. How many workers earn Rs 850 and more ?



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8. Draw a histogram for the frequency table made for the data in Question 3, and answer the following questions. How many workers earn less than Rs 850 ?





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9. The number of hours for which students of a particular class watched television during holidays is shown through the given graph :
For how many hours did the maximum number of students watch TV?



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10. The number of hours for which students of a particular class watched television during

holidays is shown through the given graph :

How many students watched TV for less than 4

hours?



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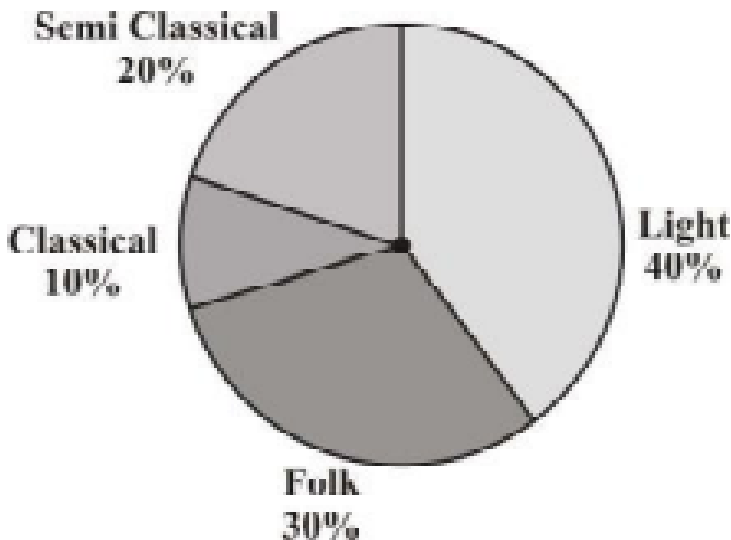
11. If the cost of the 20 pens is Rs.180, calculate

the cost of 10 pens



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12. A survey was made to find the type of music that a certain group of young people liked in a city. Adjoining pie chart shows the findings of this survey. From this pie chart answer the following: Which type of music is liked by the maximum number of people?





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13. If a cassette company were to make 1000 CD's, how many of each type would they make ?



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14. A group of 360 people were asked to vote for their favourite season from the three seasons rainy, winter and summer : Which




season got the most votes?



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15. A group of 360 people were asked to vote for their favourite season from the three seasons rainy, winter and summer : Find the

central angle of each sector.




Season		No. of votes
Summer		90
Rainy		120
Winter		150



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16. A group of 360 people were asked to vote for their favourite season from the three season rainy,winter and summer.

Draw a pie chart to show this information.

Season		No. of votes
Summer		90
Rainy		120
Winter		150



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17. Draw a Pie-chart showing the following information. The table shows the colours

preferred by a group of people.

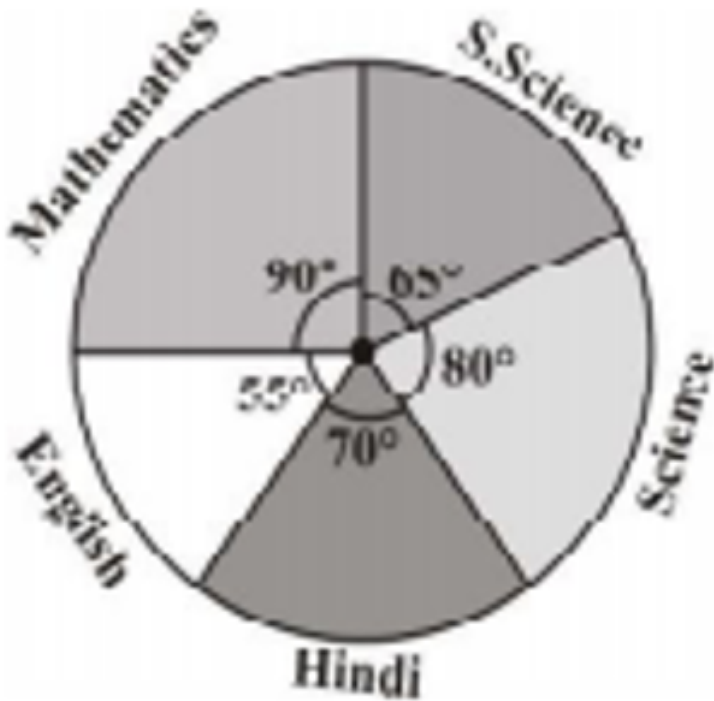
Colours	Number of People
Blue	18
Green	9
Red	6
Yellow	3
Total	36



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18. The adjoining pie chart gives the marks scored in an examination by a student in Hindi, English, Mathematics, Social Science and Science. If the total marks obtained by the

students were 540, answer the following questions. In which subject did the student score 105 marks? (Hint: for 540 marks, the central angle = 360° So, for 105 marks, what is the central angle?)

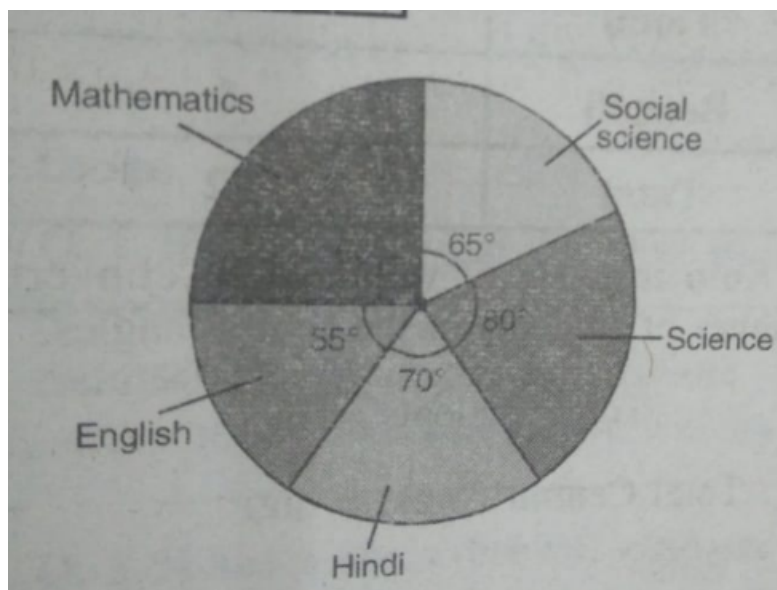


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19. The adjoining pie chart gives the marks scored in an examination by a student in Hindi, English, Mathematics, Social Science and Science .If the total marks obtained by the students were 540, answer the following questions:

How many more marks were obtained by the

student in Mathematics than in Hindi ?



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20. The adjoining pie chart gives the marks scored in an examination by a student in Hindi, English, Mathematics, Social Science and

Science .If the total marks obtained by the students were 540,answer the following questions:

Examine whether the sum of the marks obtained in Social Science and Mathemattics is more than that in Science and Hindi.



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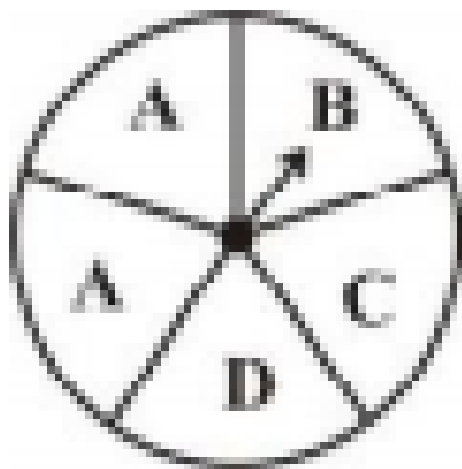
21. The number of students in a hostel,speaking different languages is given

below. Display the data in a pie chart.



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22. List the outcomes you can see in these experiments: Spinning a wheel





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23. List the outcomes you can see in these experiments.

tossing two coins together.



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24. When a die is thrown, list the outcomes of an event of getting : (i) (a) a prime number (b) not a prime number.





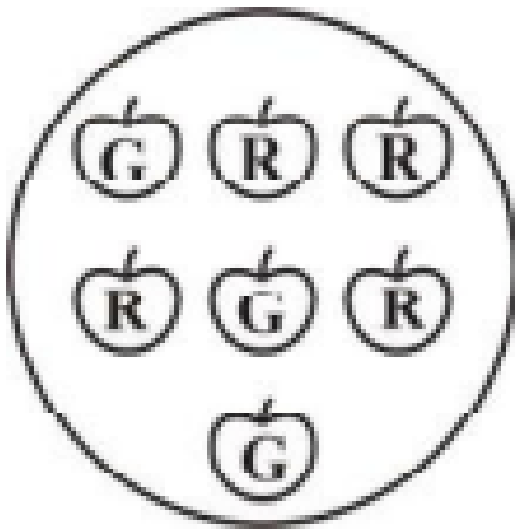
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25. When a die is thrown, list the outcomes of an event of getting : (ii) (a) a number greater than 5 (b) a number not greater than 5.



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26. Find the : Probability of the pointer stopping on D in (Question 1-(a))?



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27. Find the : Probability of getting an ace from a well shuffled deck of 52 playing cards?



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28. Find the : Probability of getting a red apple. (See figure below)



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29. Numbers 1 to 10 are written on ten separate slips (one number on one slip), kept in a box and mixed well. One slip is chosen

from the box without looking into it. What is the probability of : getting a number 6?



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30. Numbers 1 to 10 are written on ten separate slips (one number on one slip), kept in a box and mixed well. One slip is chosen from the box without looking into it. What is the probability of : getting a number less than 6?



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31. Numbers 1 to 10 are written on ten separate slips (one number on one slip), kept in a box and mixed well. One slip is chosen from the box without looking into it. What is the probability of : getting a number greater than 6?



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32. Numbers 1 to 10 are written on ten separate slips (one number on one slip), kept

in a box and mixed well. One slip is chosen from the box without looking into it. What is the probability of : getting a 1-digit number?



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33. If you have a spinning wheel with 3 green sectors, 1 blue sector and 1 red sector, what is the probability of getting a green sector? What is the probability of getting a non blue sector?



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34. Two dice are thrown at the same time find the probability of getting the sum on the dice is 13



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Example

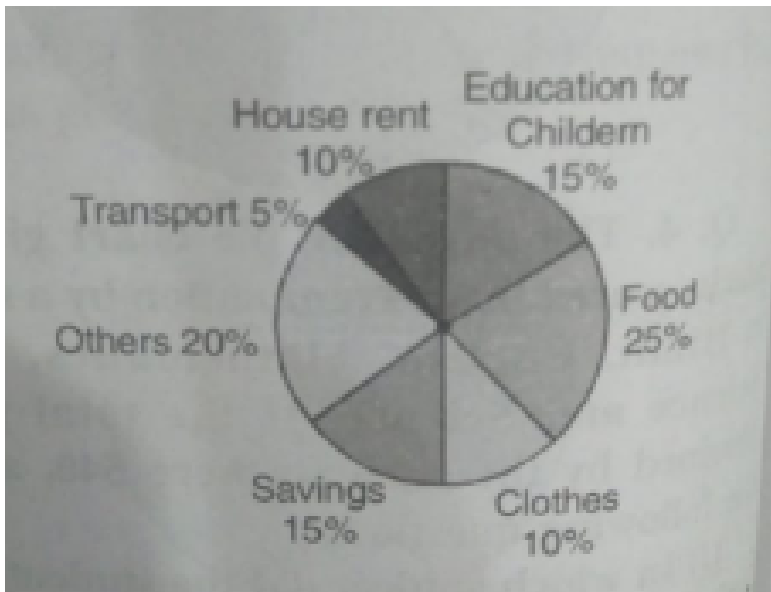
1. Adjoining pie chart gives the expenditure (in percentage) on various items and savings of a family during a month.

On which item the expenditure was mximum ?



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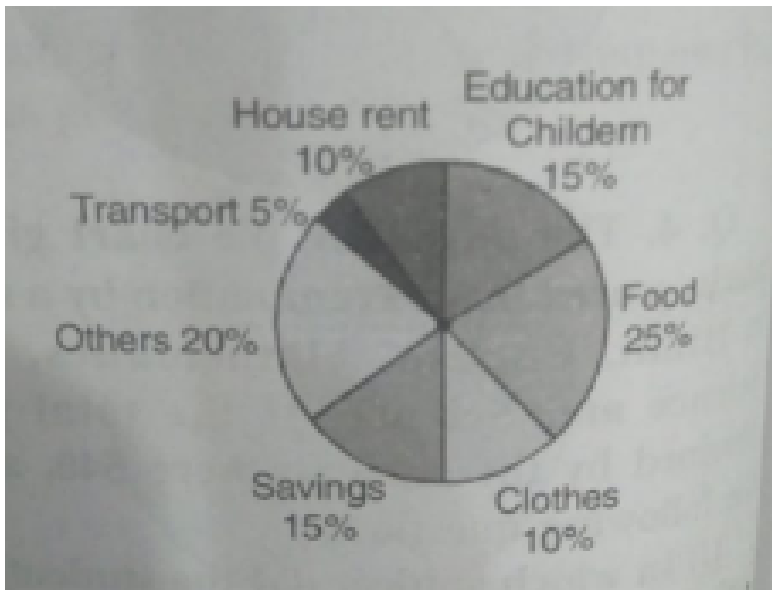
2. Expenditure on which item is equal to the total savings of the family ?





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3. If the monthly savings of the family is Rs.3,000. What is the monthly expenditure on clothes ?



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4. On a particular day, the sales (in rupees) of different items of a baker's shop are given below.



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5. A bag has 4 red balls and 2 yellow balls. (The balls are identical in all respects other than colour). A ball is drawn from the bag without looking into the bag. What is probability of

getting a red ball? Is it more or less than
getting a yellow ball?



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