



MATHS

BOOKS - SRS PUBLICATION

DATA HANDLING

Question Bank

1. Find the arithmetic mean of first three multiples of 5?

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2. Collect the information about weights of any ten students of your class in kg and answer the following:

What are the greatest and smallest weights?

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3. Collect the information about weights of any ten students of your class in kg and answer the following:

Find arithmetic mean of collected data.

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4. Collect the information about weights of any ten students of your class in kg and answer the following:

Verify whether arithmetic mean lies between greatest and smallest observation or not?

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5. Find arithmetic mean of 4,5,11,8

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6. Find arithmetic mean of 10,15,21,12,27

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7. Find arithmetic mean of $1/4, 1/2, 3/4, 3/2, 5/4$

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8. Amounts denoted by eight students to NIVAR cyclone affected people are rs 300, 450, 700, 650, 400, 750, 900, 850. find the arithmetic mean of amounts denoted.

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9. The number of passengers who travelled in APSRTC bus from Eluru to rangapuram in 5 trips in a day are 35, 42, 41, 28 and 44. What is the

average of number of passengers travelled per trip?



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10. Find arithmetic mean of factors of 24?



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11. Find arithmetic mean of $x, x+1$ and $x+2$.



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12. What is the range of first ten whole numbers?



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13. Find the mode of 10,9,12,10,8,7,6,10,9,7,8,5 and 2

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14. Take a dice roll it 20 times and record the numbers you got on its top face.find the mode of resulting numbers.

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15. The following data shows that the number of hours spent by students to study.find the mode

Number of study hours	1	2	3	4	5	6
Number of students	4	2	1	2	1	0

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16. Find mode of the following data

2,3,7,5,3,2,6,7,1,2

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17. Find mode of the following data

K,A,B,C,B,C,D,K,B,D,B,K,A,K

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18. Find mode of the following data

First ten natural numbers.

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19. Find mode of the following data

2,2,3,3,4,4,5,5,6,6,7,7,8,8,

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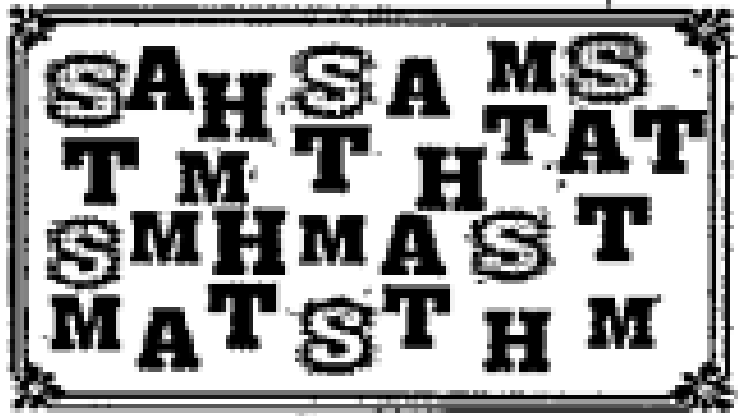
20. 20 students were participated in "SWACHH BHARAT ABHIYAN" campaign. The number of days each student participated were 5,1,2,4,1,2,3,2,1,2,3,2,5,3,4,2,1,3,4, and 5. find mode of the data?

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21. The number of goals scored by a football team in different matches are 3,2,4,6,1,3,2,4,1, and 6. Find mode of the data.

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22. Find the mode of letters in the adjacent figure verify whether it is unimodal or bimodal data



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23. What is the median of first 7 prime numbers?

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24. Find the median of 7,3,15,0,1,71,19,4,17

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25. Find the median of 12,23,11,18,15,20,86,27

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26. The number of pages in textbooks of different subjects are 421,175,128,117,150,145,147,and 113 find median of given data/

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27. The weekly sales of motor bikes in a showroom for the past 14 weeks are 10 ,6,8,3,5,6,4,7,12,13,16,10,4 and 7 find the median of the data?

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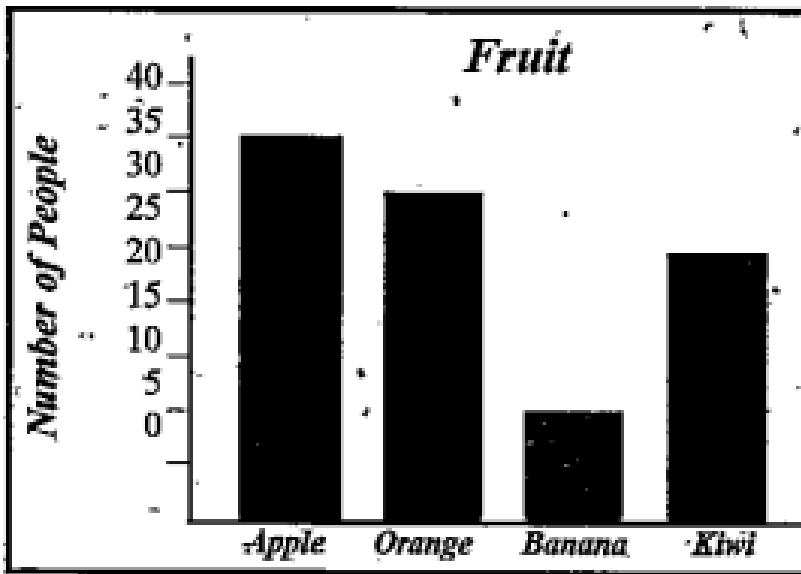
28. Find the median of 0.3,0.25,0.32,0.147,0.19,0.2 and 7.1

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29. If the median of observations $2x, 3x, 4x, 5x, 6x$ is 28 then find the value of x ?

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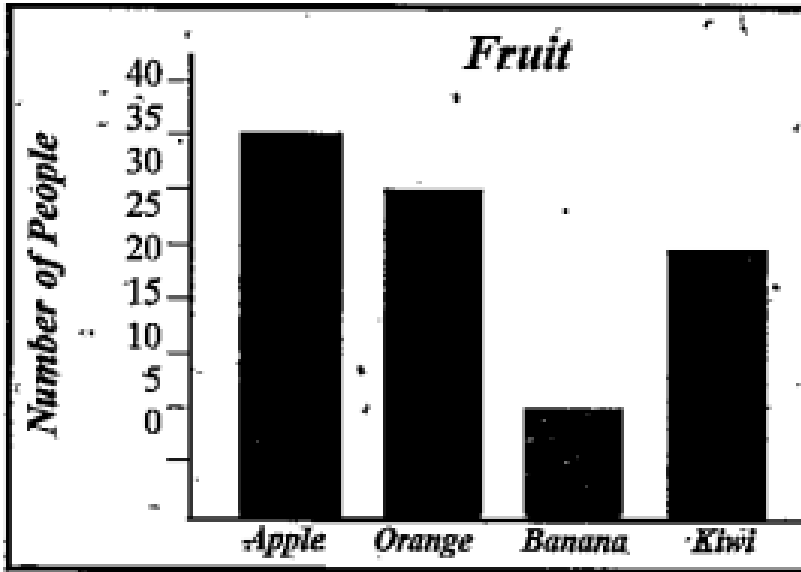
30. Observe the adjacent bar graph and answer the following



Which fruit most of the people like?

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31. Observe the adjacent bar graph and answer the following

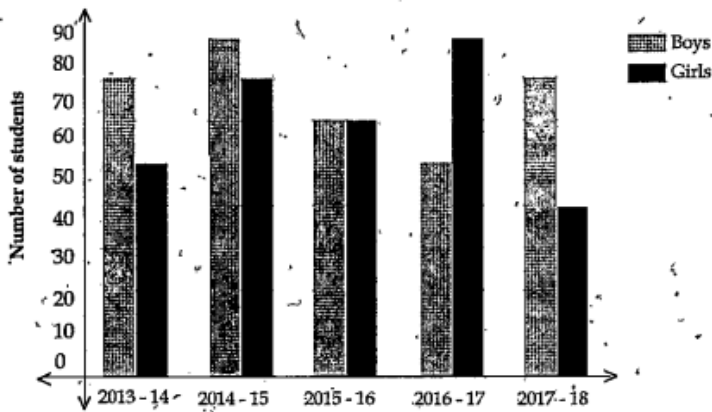


How many people likes banana?



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32. In the adjacent double bar graph number of students of a class are shown according in academic year

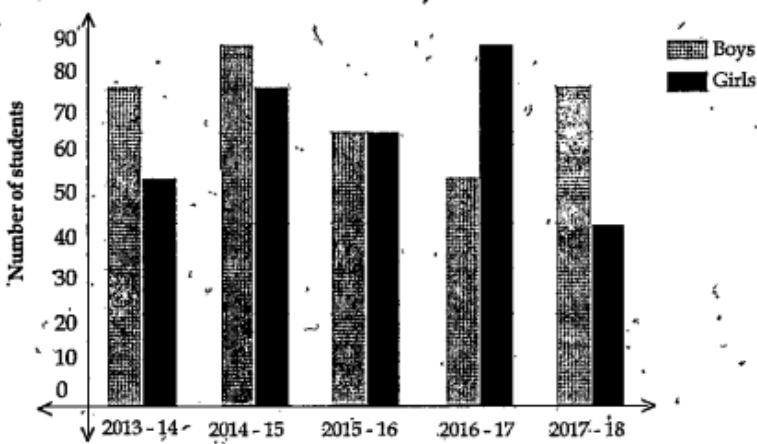


Answer the question on the basis of this double bar graph.

In which academic year number of girls were more than number of boys in the class?

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33. In the adjacent double bar graph number of students of a class are shown according in academic year

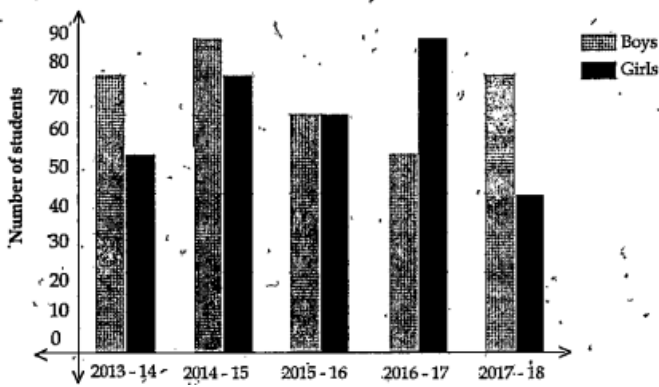


Answer the question on the basis of this double bar graph.

IN which academic year number of both girls and boys in the school were equal ?

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34. In the adjacent double bar graph number of students of a class are shown according in academic year

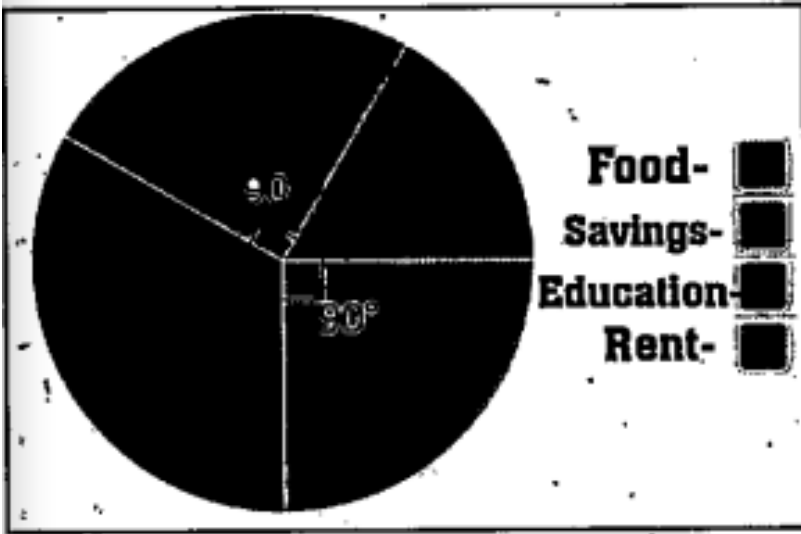


Answer the question on the basis of this double bar graph.

What was the total number of students In the school in the academic year 2013-2014?

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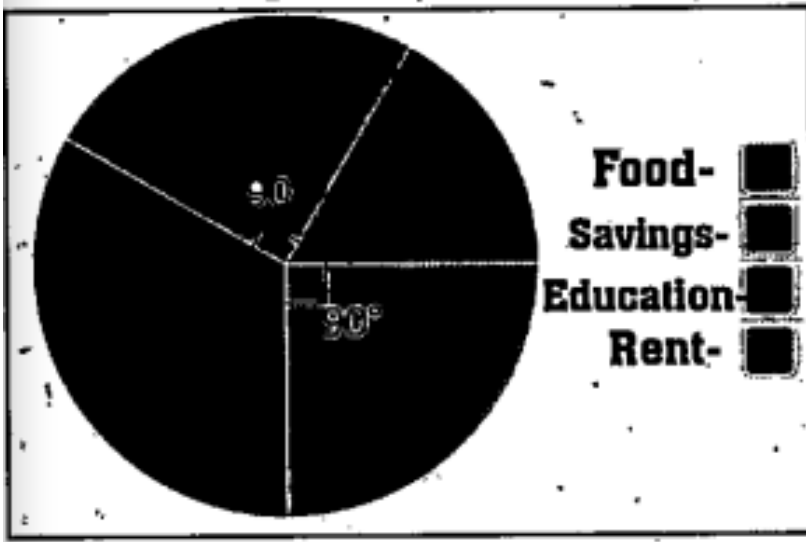
35. The adjoining pie chart gives the expenditure on various items during a month for a family. In the figures angles made by each sector at the centre are given the answer the following



On which item the expenditure is minimum?

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36. The adjoining pie chart gives the expenditure on various items during a month for a family. In the figures angles made by each sector at the centre are given the answer the following



On which item the expenditure is maximum?

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37. The following data show the number of students opting different subjects in college

Subjects	Botany	Mathematics	Physics	Chemistry	Economics	Commerce
No. of students	45	60	20	30	10	15

Construct a pie diagram to represent the above data.

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38. Runs made by two batsman in 3 matches are given below

Kohli: 49,98,72

Rohit : 64,45,83 then find average of runs scored by kohli and rohit.whose average is better?

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39. Find mode of 38,42,35,37,45,50,32,43,43,40,36,38,43,38,and 47. verify whether it is unimodal or bimodal data.

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40. The temperature in different places are 0,-5,7,10,13,-1,and 41 in degree celsius.Find the median. If another observation $4^{\circ}C$ is added to the given data is there any change in value of median? Explain ?

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41. If the range of observation $7x, 5x, 3x, 2x, x, (x > 0)$ is 12 . Then find value of x and express all the observation in numerical form.

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42. Birth and death rates in different states in 2015 are given below.

Draw a double bar graph for the given data

State	Birth rate (per 1000)	Death rate (per 1000)
Andhra Pradesh	17	7
Arunachal Pradesh	19	6
Tamil Nadu	15	7
Jharkhand	24	6
Gujarat	20	6
Odisha	19	8

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43. In the following alphabetical series what will be the next term in the given series. Choose the next term from the options B, F, J, N, R, V

A. Z

B. W

C. X

D. W

Answer: A



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44. In the following alphabetical series what will be the next term in the given series. Choose the next term from the options A,C,E,G,I,K

A. P

B. O

C. N

D. M

Answer: D



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45. In the following alphabetical series what will be the next term in the given series. Choose the next term from the options M, O, R, T

A. W

B. U

C. V

D. Q

Answer: D



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46. In the following alphabetical series.what will be the next term in the given series.Choose the next term from the options U,S,P,L

A. F

B. G

C. H

D. I

Answer: B

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47. In the following alphabetical series what will be the next term in the given series.Choose the next term from the options

ZA,YB,XC,WD

A. UE

B. EV

C. VE

D. SH

Answer: C



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48. In the following alphabetical series what will be the next term in the given series. Choose the next term from the options

AM,BO,CQ,DS,EU

A. WF

B. FU

C. GV

D. FW

Answer: D



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49. In the following alphabetical series what will be the next term in the given series. Choose the next term from the options

ZY,XV,UR,QM

A. LG

B. LI

C. LH

D. KJ

Answer: C



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50. In the following alphabetical series what will be the next term in the given series. Choose the next term from the options. AC,DF,GI, JL

A. NO

B. MO

C. MN

D. NP

Answer: B



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51. In the following alphabetical series what will be the next term in the given series. Choose the next term from the options DN,EM,FL,GK,HJ

A. IK

B. GI

C. IJ

D. II

Answer: D



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52. In the following alphabetical series what will be the next term in the given series. Choose the next term from the options
CBA,STU,FED,VWX_____

A. IHG

B. GHI

C. IJK

D. YZA

Answer: A



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53. In the following alphabetical series what will be the next term in the given series. Choose the next term from the options
AZC, DYF, GXI, JWL _____

A. OVM

B. UNV

C. MVO

D. MNO

Answer: C

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54. In the following alphabetical series what will be the next term in the given series. Choose the next term from the options.
ABQ, CDL, EFM, GHN _____

A. JIO

B. IJO

C. MNO

D. ONM

Answer: B



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55. In the following alphabetical series what will be the next term in the given series. Choose the next term from the options

A2C,D5F,G8I,J11L

A. M14O

B. M12O

C. N15P

D. N12P

Answer: A



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56. In the following alphabetical series what will be the next term in the given series. Choose the next term from the options.

A,CD,HIJ,PQRS

A. ZABCD

B. ZYXW

C. ABCDE

D. RSTUV

Answer: C



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57. In the following alphabetical series what will be the next term in the given series. Choose the next term from the options. A,BC,DEF,GHIJ

A. KLMNP

B. LMNOP

C. KLMNO

D. JKLMN

Answer: C



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58. What is the mean of first 10 natural numbers?

A. 3.5

B. 7.5

C. 6.5

D. 5.5

Answer: D

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59. The mean of 2,x,5,y and 14 is 6 then which of the following is true?

A. $x+y=13$

B. $x+y=9$

C. $x-y=12$

D. $2x+y=12$

Answer: B

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60. Find the arithmetic mean of first 6 prime numbers?

A. 5.83

B. 8.63

C. 6.83

D. 9.63

Answer: C



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61. Find the mean of first five whole numbers.

A. 1

B. 2

C. 3

D. 4

Answer: B



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62. Find the mean of first 6 natural numbers?

A. 5.5

B. 6.5

C. 3.5

D. 4.5

Answer: C



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63. The median of 16 whole numbers is

A. 6.5

B. 7.5

C. 9.5

D. 8.5

Answer: B



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64. What is the shape of each part in pie chart?

A. Sector

B. Chart

C. Cone

D. Cylinder

Answer: A



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65. If the median of the data 24, 29, 34, 38, x is 29, then the value of x is.

(i) $x > 38$ (ii) $x < 29$ (iii) x lies in between 29 and 34 (iv) none

- A. more than 38
- B. less than 29
- C. between 29, 34
- D. none of these

Answer: B

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66. Total data is represented as relative size of components in a

- A. Pie diagram
- B. Pictograph
- C. bar graph
- D. Sector

Answer: A

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67. Statement (D): The most frequently occurring value of set of observations is called the mode. Statement (E) : Always mode is exist any given data: Statement (F): Some times there will be no mode for the given data.

A. Arithmetic mean

B. Median

C. Mode

D. Range

Answer: C

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68. Find the median of first 5 natural numbers.

A. 6

B. 8

C. 10

D. 30

Answer: A



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69. The sum of four observations is 44.what is the mean

A. 10

B. 9

C. 8

D. 11

Answer: D



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70. The mean of 11 observations is 12. What is the sum of observations?

A. 122

B. 132

C. 142

D. 152

Answer: B



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71. In a survey finding number of people watching TV serials are given below answer the questions

TV serial	No. of people Watching serials in a city
1. Mudda Mandaram	29, 618
2. Pakkinti Ammayi	47, 900
3. Kalyana Vibhogam	40, 156
4. Muga Manastlu	50, 715

what is the most popular show from the above table?

- A. Mudda mandaram
- B. Pakkinti ammayini
- C. Kalyana vaibhogame
- D. Muga manasulu

Answer: D



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72. In a survey finding number of people watching TV serials are given below answer the questions

TV serial	No. of people Watching serials in a city
1. Mudda Mandaram	29,618
2. Pakkinti Ammayi	47,900
3. Kalyana Vibhogam	40,156
4. Muga Manastulu	50,715

Which concept used to know most popular show ?

- A. Mean
- B. median
- C. mode
- D. none

Answer: C

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73. An invigilator wants to bring sufficient number of additional papers to the examination hall.

- A. Mean

B. median

C. mode

D. none

Answer: A



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74. Preparation of the number of laddus for a marriage.

A. Mean

B. median

C. mode

D. none

Answer: A



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75. For finding the favourite cricketer in a class

- A. Mean
- B. median
- C. mode
- D. none

Answer: B



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76. Find the median of first five odd natural numbers.

- A. 5
- B. 4
- C. 2

D. 8

Answer: A



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77. What is the mode of unit digits that are present in the numbers between 50 to 60 ?

A. 1

B. 5

C. 2

D. NIL

Answer: D



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78. When there is no mode for a particular data we can say the mode is

A. 1

B. 0

C. 2

D. NO MODE

Answer: D



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79. What is the mean of factors of 12 ?

A. 5.66

B. 3.76

C. 4.66

D. 8.66

Answer: C

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80. What is the median of first 5 multiples of 11 ?

A. 32

B. 33

C. 34

D. 35

Answer: B

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81. The mean of $x+2$, $x+7$, $x+6$ is 25 then find the observations.

A. 11,12,16

B. 2,7,6

C. 13,16,17

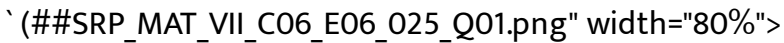
D. 15,,16 ,17

Answer: B



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82. Weight of food that term ate each day is given in the table



How much weight of food per day does he ate on an average?

A. 783.13 gr

B. 873.3 gr

C. 842.8 gr

D. 784.3 gr

Answer: C



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83. The following table shows the scores of player in each game.

Observe it and answer the questions

Player	Game - 1	Game - 2	Game - 3
John	20	35	15
Venkat	20	0	12
Rahim	14	15	16

Who is the best player?

- A. john
- B. venkat
- C. rahim a
- D. all

Answer: A



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84. The following table shows the scores of player in each game.

Observe it and answer the questions

Player	Game - 1	Game - 2	Game - 3
John	20	35	15
Venkat	20	0	12
Rahim	14	15	16

Which mathematical concept is used to know the best player?

- A. mean
- B. median
- C. mode
- D. all

Answer: A

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85. Identify the one which is not affected by maximum and minimum value of the data?

A. mean

B. mode

C. median

D. none

Answer: C



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86. Find the difference between mean and median of the following data 3,16,24,13

A. 1.5

B. 2.5

C. 0.5

D. 3

Answer: C



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87. Observe the table and answer the question based on the table

Name of the Batsman	Runs scored	Number of matches
P. Jayawickrama (Srilanka)	500	5
R. Panth (India)	482	4
K. Perera (Srilanka)	465	5
E. Morgan (England)	422	4
A. Dananjaya (Srilanka)	395	3

A. P.jayawickrama

B. K panth

C. k peera

D. A. dhananjay

Answer: B



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88. Observe the table and answer the question based on the table

Name of the Batsman	Runs scored	Number of match
P. Jayawikrama (Srilanka)	500	5
R. Panth (India)	482	4
K. Perera (Srilanka)	465	5
E. Morgan (England)	422	4
A. Dananjaya (Srilanka)	395	3

A. R.panth

B. E.morgan

C. K.peera

D. P.jayawickrama

Answer: D



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89. Nani practices yoga regularly for a week as follows

Day	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Minutes	20	35	40	30	25	45	15

The average time spent per day by nani is ____

- A. 25 min
- B. 32 min
- C. 24 min
- D. 30 min

Answer: D



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Telugu

Highest marks = 15

Least marks = 10

Mean = 12

90.

From this what can you conclude

- A. Mean is nothing but mode
- B. Mean always lies between lie highest and lowest observations of the data
- C. Mean is representation of the data
- D. None

Answer: B



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91. A data of 10 observations has a minimum value 15 and maximum value 25. What is the mean of the data?

A. 12

B. 15

C. 21

D. 27

Answer: C



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92. From the graph what is the mode here ?

A. sun flower

B. ground nut

C. palm olein

D. all

Answer: A



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93. The presentation of data can be

A. bar graph

B. Double bar graph

C. pie chart

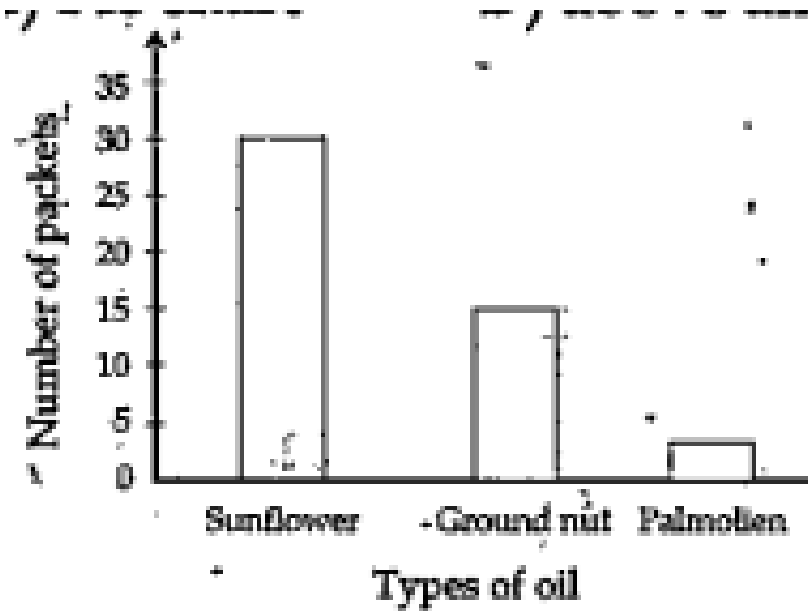
D. above all

Answer: A



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94. Observe the graph and answer the question



Find ratio between sale of jowar and sale of sugar

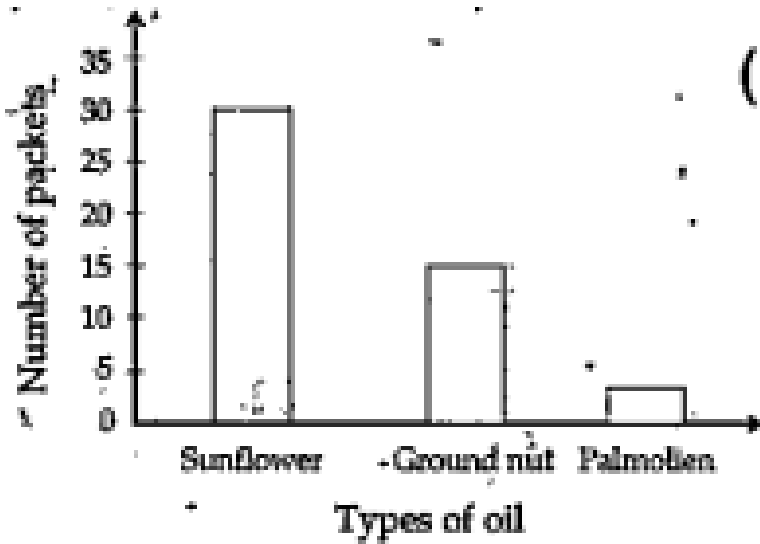
- A. (10:5)
- B. (2:1)
- C. (2:3)
- D. both A and B

Answer: B



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95. Observe the graph and answer the question

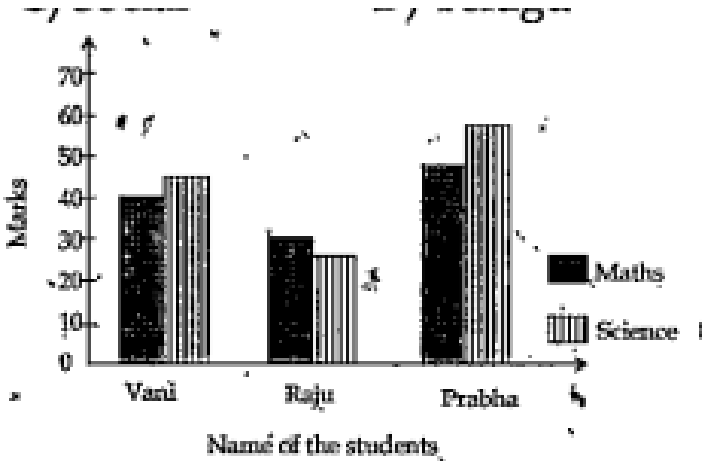


HOW much sale over rice is more over wheat?

- A. 5
- B. 10
- C. 15
- D. 20

Answer: B

96. Observe the adjacent figure and answer the following questions

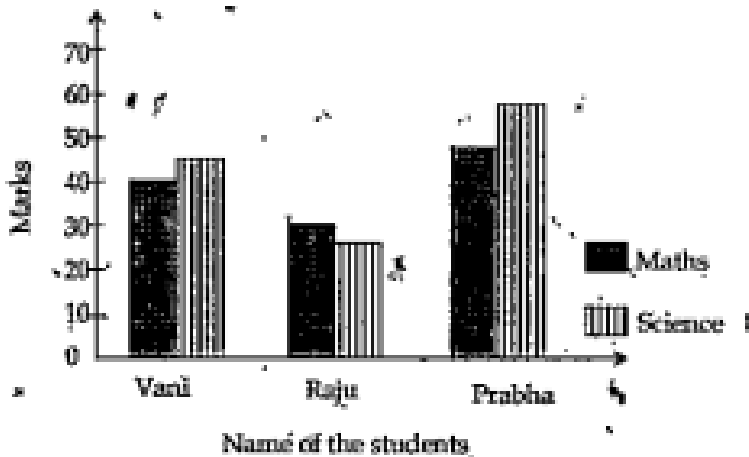


What are the total marks of vani in both mathematics and science?

- A. 85
- B. 70
- C. 110
- D. 100

Answer: A

97. Observe the adjacent figure and answer the following questions



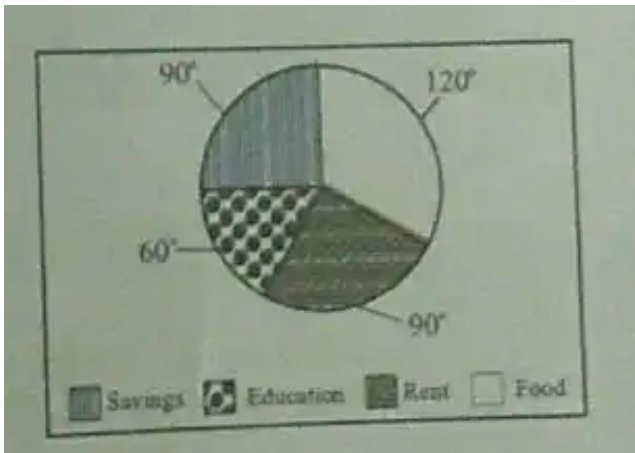
In which subject raju is well ?

- A. Maths
- B. Science
- C. Social
- D. telugu

Answer: A

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98. The adjoining pie chart gives the expenditure on various Items during a month for a family. (The numbers written around the pie chart tell as the angles made by each sector at the centre). Answer the following : On which Item is the expenditure maximum ?

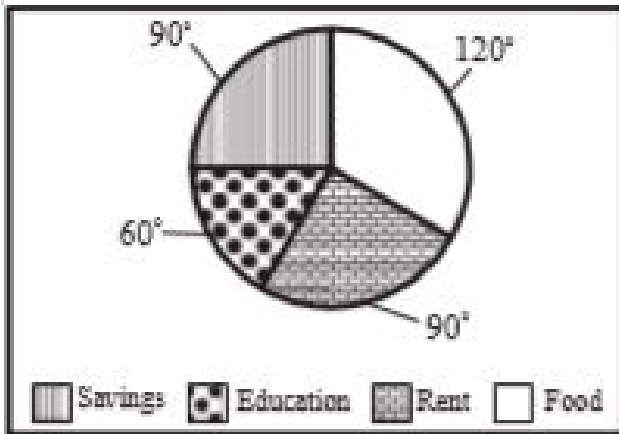


- A. rent
- B. savings
- C. education
- D. food

Answer: D

99. The adjoining pie chart gives the expenditure on various items during a month for a family. (The numbers written around the pie chart tell us the angles made by each sector at the centre.)

Answer the following-



If the monthly income of the family is Rs 9000, what is the expenditure on rent?

A. 3333

B. 3500

C. 4561

D. 2500

Answer: A

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100. Collection of information in the form of numbers or words is called

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101. Collection of village population details from census register is _____ type of data.

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102. The another name of Arithmetic mean is ____

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103. Arithmetic mean = _____

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104. The mean of first 10 natural numbers ____

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105. Arithmetic mean always lies between _____ observation and _____ observations of the data.

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106. The difference between highest and lowest values is called _____

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107. The range of first 100 natural numbers is _____

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108. What is the range of first ten whole numbers?

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109. The mean of $x - 1$, x and $x + 1$ is

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110. What is the mean of factors of 12 ?



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111. The observation which occurs most frequently in a data is called.....



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112. If a data having one mode is known as _____



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113. A data having two modes is



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114. The mode of A,B,C,E,D,F,C,B,R,M,E,C,N IS _____



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115. The mode of 10 ,10 ,12,12,13,13 is _____

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116. By arranging the given observations in ascending order then the middle most observation is called a _____

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117. For a distribution with odd number (n) of observations, the median is th observation.

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118. In 8 observation of a data median's observations _____



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119. The sum of all angles of sectors in pie chart is _____



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120. In bar graphs the length of the bars on _____ axis.



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121. Arithmetic mean = _____



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122. What is the range of first 5 natural numbers



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123. What is unimodal data?

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124. Find the mode of 10,15,2,15,4,6,15,7,15, and 20 ?

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125. Find the median of data 32,43,25,67,46,71 and 82.

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126. True /false

The difference between maximum and minimum values is mode.

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127. True /false

The observations which occurs most frequently in the given data is called median.

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128. True /false

Data having two modes is called bimodal data.

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129. True /false

If the number of observations n is odd then the median is $\frac{n + 1}{2}$ observations

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130. A cricketer scores the following runs in eight innings
58,76,40,35,46,45,0,100 find the mean score

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131. your friend found the mode of a given data describe and correct your friends error if any 35,32,35,42,38,32,34
mode =32

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132. Find the mean of the first five prime numbers.

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133. Find the mean of the first ten natural numbers.

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134. The monthly incomes of 7 graduates is ₹8000, ₹9000, ₹8200, ₹7900, ₹8500, ₹8600 and ₹60000. Find the median income.

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135. Find the median of 49, 48, 15, 20, 28, 17, 14 and 110.

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136. The marks (out of 100) obtained by a group of students in a science test are 85,76,90,85,39,48,56,95,81 and 75 find the highest and lowest marks obtained by the students

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137. The marks (out of 100) obtained by a group of students in a science test are 85,76,90,85,39,48,56,95,81 and 75 find the Range of the marks obtained

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138. The marks (out of 100) obtained by a group of students in a science test are 85,76,90,85,39,48,56,95,81 and 75 find the mean marks obtained by the group

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139. Find the mode of 2,6,5,3,0,3,4,3,2,4,5,2,4,

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140. Find the mode of 2,14,16,12,14,14,16,14,10,14,18,14



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141. Find the mode of the following data :

12,14,12,16,15,13,14,18,19,12,14,15,16,15,16,16,15,17,13,16,16,15,15,13,15,17,15,14,15,13,15,14



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142. Say true or false and why? The difference between the largest and smallest observations in a data set is called the mean.



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143. Say true or false and why? In a bar graph, the bar which has the greater length indicates mode.



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144. Say true or false and why? Value of every observation in the data set is taken into account when median is calculated.



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145. Say true or false and why? The median of a set of numbers is always one of the numbers.



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