

Data handling Worksheet

Date:02/08/24

Question 1

which of the following is false

- (a)The total angle at the centre of the circle in a pie chart is 360°
- (b)The pie chart is a pictorial chart
- (c)If the value of the component with central 20° in a pie chart is 80, the value of the component with 15° will be 60
- (d)None of the above

Q2. Out of 200 people surveyed, the following data was gathered about favourite flavours of ice-cream.

Vanilla	50
Strawberry	60
Chocolate	70
Sherbet	10
Don't like ice-cream	10

Without doing any calculation, find which graph best represents the data:

(a)



(b)



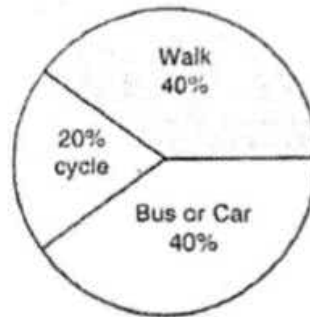
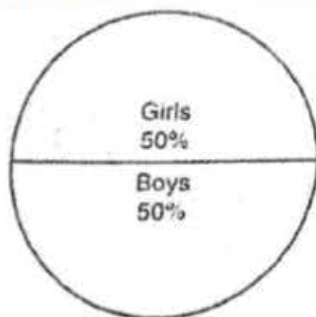
(c)



(d)



Q3. Each of the following pie charts gives a different piece of information. Find the fraction of the circle representing each of these information



SHORT ANSWER TYPE QUESTIONS

Q4. Construct a frequency distribution table for the data on weights(kg.) of 20 students of a class, using intervals 30-40, 35-40 and so on

40, 38, 33, 48, 60, 53, 31, 46, 34, 36, 49, 41, 55, 49, 55, 42, 44, 47, 47, 38, 39.

Do we need to have the class intervals 0-10, 10-20 and 20-30. Why?

Q5. Populations (in hundreds) of 50 towns and villages of a state, taken at random from a census report are:

11, 72, 15, 8, 15, 3, 23, 26, 2, 119, 200, 6, 16, 6, 111, 5, 18, 140, 99, 127, 3172, 18, 30, 43, 2, 1, 52, 40, 3, 7, 13, 5, 142, 70, 86, 31, 38, 70, 51, 11, 52, 18, 46, 89, 1, 30, 25, 4, 52

Prepare a grouped frequency table for the above data, using class intervals 0-30, 30-60, 60-90 and so on. Also find the class with maximum frequency.

Question 6

What is the range of the given data

2, 3, 5, 7, 8, 9, 34, 23, 11, 23, 33, 1, 39

(a) 14

(b) 38

(c) 39

(d) 30

Question 7

What is class Mark of the interval 40-50

(a) 10

(b) 45

(c) 40

(d) 50

Question 8

In a frequency distribution with classes 0 –10, 10 –20 etc., the size of the class intervals is 10. The lowest limit of 7th class is

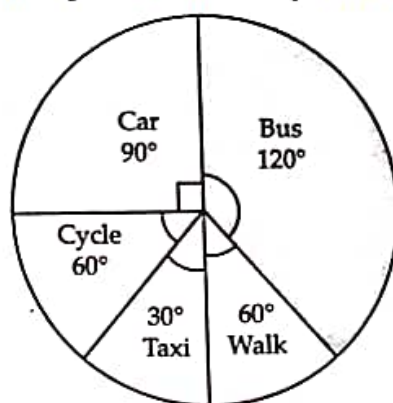
- (a) 70
- (b) 60
- (c) 65
- (d) 50

Question 9 The choice of the food in a group of 1000 people is as

Choice of Food	Number of people
South Indian	420
North Indian	360
Chinese	120
Thai	60
Others	40

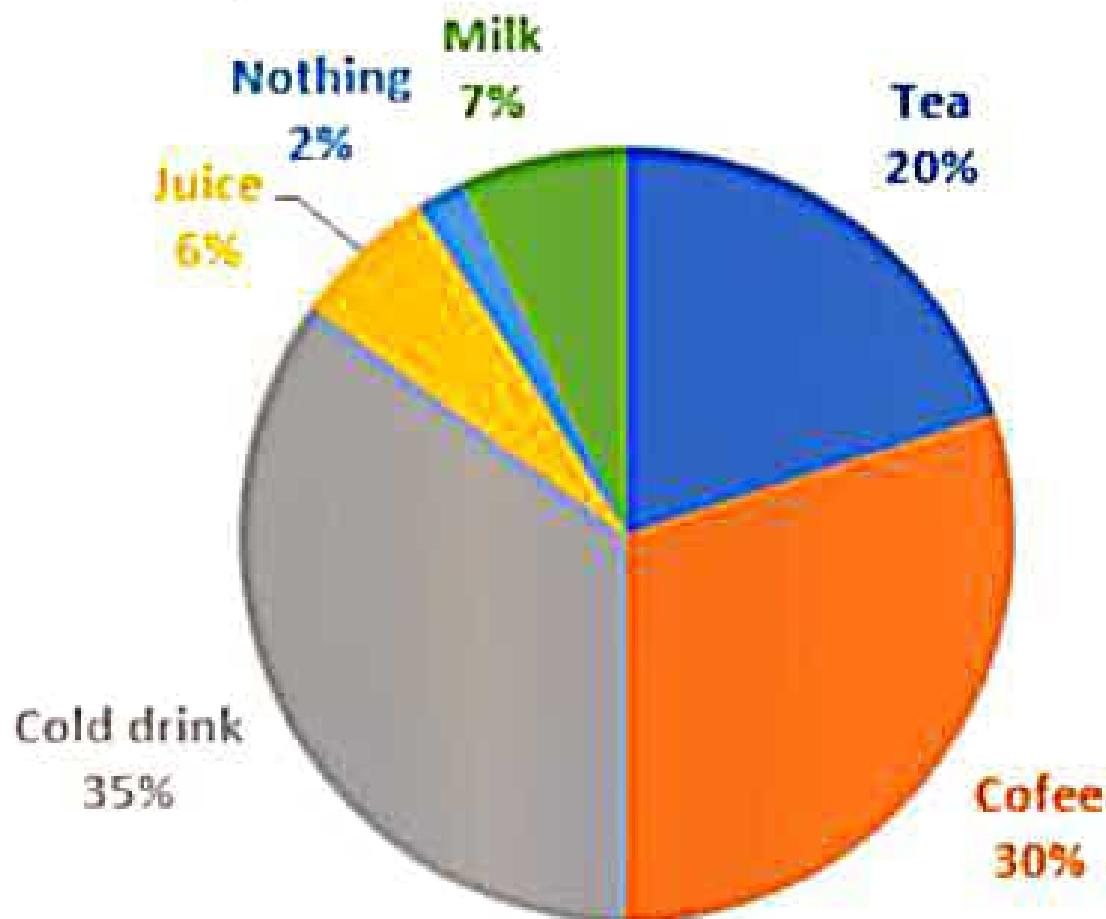
Draw a pie chart for the given data

- Q10. The given pie chart shows the result of a survey carried out to find modes of travel used by children to go to school. Study the pie chart and answer the following questions:
- What is the most common mode of transport?
 - What fraction of children travel by each of the mode car, cycle, taxi and bus?
 - If 18 children travel by car, how many children took part in the survey?



Question 11

A survey was carried out to find the favourite beverage preferred by a certain group of young people. The following pie chart shows the findings of this survey.



From this pie chart answer the following:

- (i) Which type of beverage is liked by the maximum number of people.
- (ii) If 60 people like tea, how many people were surveyed?
- (iii) How many people does not like any thing in the above people surveyed

Question 12

The frequency distribution is given as

Class Interval	Frequency
0-10	11
10-20	8
20-30	20
30-40	23
40-50	10
50-60	8
70-80	12
80-90	5

- (i) Class interval which has the lowest frequency.
- (ii) Class interval which has the highest frequency.
- (iii) What is the class size of the intervals?
- (iv) What is the upper limit of the fifth class?
- (v) What is the lower limit of the last class?