



SUCCESS KEY TEST SERIES

IX- Semi English
(Worksheet-2 Math-1 (6,7))

Mathematics Part - 1-

DATE: :

TIME: 1 hrs

MARKS: 20

SEAT NO:

Q.1 A) Choose the correct alternative.

(4)

- 1) What is the class mark of class 25 – 35?
a. 25 b. 35 c. 60 d. 30
- 2) The main purpose of financial planning is
a. Protection b. Growth of wealth
c. Provision for predictable and unpredictable expenses d. All of the above
- 3) Under section 80 D, installments of are exempt from taxation.
a. Premium for Life insurance
b. Premium for Car insurance
c. Premium for Health insurance
d. Premium for Travel insurance
- 4) Following statements are correct in regard to PAN.
a. PAN card can be used as a proof of identity.
b. It consist of unique ten digit alphanumeric number
c. It is issued by Income Tax department
d. All of the above

B) Solve the following questions. (Any one)

(2)

- 1) Mr. Pandit invested Rs. 3,50,000 in a business and received Rs. 5,50,000 from it after 3 years. If he reinvested the profit earn in shares and bonds in the ratio 7:3. How much amount did he invested in each of the schemes?
- 2) Observe the table given below. Check and decide, whether the individuals have to pay income tax.

Individuals	Age	Taxable Income (rs.)	Will have to pay income tax or not
Miss Nikita	27	Rs.2,34,000	

Q.2 A) Complete the following Activities. (Any one)

(2)

- 1) The following 10 observations are arranged in the ascending order as follows :
2, 3, 5, 9, x + 1, x + 3, 14, 16, 19, 20.
If the median of the data is 11, find the value of x.
Here, n = 10 (Even number)
∴ median is average of middle two numbers.
∴ median is average of (x +1) and (x +3).
∴ median = _____ = $\frac{2x + 4}{2}$ = _____
The median given is 11.
∴ x + 2 = _____

$$\therefore x = 11 - 2$$

$$\therefore x = \underline{\hspace{2cm}}$$

Ans. : The value of x is _____.

- 2) In a basket there are 10 tomatoes. The weight of each of these tomatoes in grams is as follows :
60, 70, 90, 95, 50, 65, 70, 80, 85, 95.

Find the median of the weight of tomatoes.

Write the given data in the ascending order.

50, 60, 65, 70, 70, 80, 85, 90, 95, 95

n = _____ (Even number)

\therefore median is the average of the middle two numbers.

\therefore median is average of 70 and 80.

$$\therefore \text{median} = \underline{\hspace{2cm}} = \frac{150}{2} = \underline{\hspace{2cm}}$$

Ans. : The median weight of tomatoes is _____

B) Solve the following questions. (Any one)

(2)

- 1) The mean of 25 observations is 27. If one observation is included. The mean still remains 27. Find the included observation.
- 2) Give below are the marks obtained by 27 students in a test:
21, 3, 28, 38, 6, 40, 20, 26, 9, 8, 14, 18, 20, 16, 17, 10, 8, 5, 22, 27, 34, 2, 35, 31, 16, 28, 37.
i. Using the class intervals 1 - 10, 11 - 20 etc. construct a frequency table.
ii. State the class mark of the third class of your frequency table.

Q.3 Solve the following questions. (Any one)

(3)

- 1) Kailash used to spend 85% of his income. When his income increased by 36% his expenses also increased by 40% of his earlier expenses. How much percentage of his earning he saves now?
- 2) A survey was undertaken to judge the inclination of students towards business and service in five different schools. Draw subdivided bar diagram for the following data:

School number	I	II	III	IV	V
Business (No. of students)	32	56	45	55	60
Service (No. of students)	48	24	45	25	40

Q.4 Solve the following questions. (Any one)

(4)

- 1) Monthly expenses on various items of a family are shown in table. Draw a percentage bar diagram :

Items	Groceries	Education	House rent	Miscellaneous	Saving
Expenditure (Rs.)	6000	3000	3000	1500	1500

- 2) Mr. Ganesh's monthly income to expenditure ratio is 8:7 and for Mr. Ram, the ration is 7:5. Also, 8% of Mr. Ganesh's income is equal to 10% of Mr. Ram's income. If Mr. Ram's monthly expenditure is Rs. 10,000. Find Ganesh's annual income and saving made by Mr. Ganesh and Mr. Ram.

Q.5 Solve the following questions. (Any one)

(3)

1) Sameera spent 90% of her income and donated 3% for socially useful causes. If she left with Rs.1750 at the end of the month, what was her actual income ?

2) 38 people donated to an organization working for disable persons. The amount in rupees were as follows

:

101, 500, 401, 201, 301, 160, 210, 125, 175, 190,

450, 151, 101, 351, 251, 451, 151, 260, 360, 410,

150, 125, 161, 195, 351, 170, 225, 260, 290, 310,

360, 425, 420, 100, 105, 170, 250, 100.

(i) by taking classes 100 – 149, 150 – 199, 200 – 249, ... prepare grouped frequency distribution table.

(ii) From the table, find the number of people who donated Rs. 350 or more