



Anand Niketan Maninagar Campus

Grade : VII	Subject : MATHEMATICS	Name :
Syllabus: Ch:16-Data Handling Ch:12-Triangle and Its Properties	PT-III(Practice Worksheet)	PT-III(Written)-20 Marks Notebook submission-10 marks Subject Enrichment: Mental Math -5 Marks Math Lab -5 Marks Dictation – 10 marks

SECTION – A

Q - 1. Solve the following.

1. Is the given triplets can be the angles of a triangle?
 $30^\circ, 70^\circ, 90^\circ$
2. Is it possible to draw triangles with the measurements given below 10.2 cm, 5.8cm and 4.5 cm.
3. A triangle in which any two of its sides are equal is called a _____ triangle.
4. What is the probability of drawing a card from a pack of 52 cards?
5. The number of times an observation occurs in given data is called the _____ of the observation
6. A coin is tossed twice. Write its sample space.
7. A coin is tossed 100 times in which head is obtained 52 times. On tossing the coin at random, find the probability of getting a tail.
8. A dice is thrown. What is the probability of getting number 5?
9. In a class test marks obtained out of 12 by students are as follows:
6, 5, 8, 6, 7, 5, 6, 10, 4, 3 what is the range of the marks?
10. Find the mean of first three even numbers.

SECTION-B

Q – 2. Solve the following.

1. Two angles of a triangle are of measures 60° and 75° . Find the measure of the third angle.
2. The angles of a triangle are in the ratio 5:4:3 find the measures of each angle.

- The two interior opposite angles of a triangles are 60° and 80° . Find the measure of the exterior angle.
- Find the arithmetic mean of the first four natural numbers.

SECTION-C

Q - 3. Solve the following.

- A tree is broken at a height of 5m from the ground and its top touches the ground at a distance of 12m from the base of the tree. Find the original height of the tree. [Draw diagram]
- The diagonals of a rhombus are 30 cm and 16 cm. Find its perimeter.
- The weight (in kg) of 15 students of a class are as follows:
46, 42, 38, 35, 37, 43, 43, 32, 43, 43, 38, 42, 38, 46, 38. Find the median and mode of the data.
- The following are the number of members in 20 families in a village 5, 7, 5, 1, 2, 5, 6, 7, 5, 4, 4, 6, 6, 7, 5, 5, 6, 6, 5, 4. Prepare a frequency table.

SECTION – D

Q - 4. Solve the following.

- The performance of the students in two class test (out of 20) is given, draw a double bar graph choosing an appropriate scale and answer the questions that follow:

Subject	English	Hindi	Maths	Social. sc.	Gen.sc.
I Test	12	10	16	18	8
II Test	16	12	12	14	16

- In which subject has the students improved their performance most?
 - In which subject(s) has the performance been improved?
 - In which subject(s) has the performance gone down?
- In the given ΔPQR , $AB \parallel QR$, If $\angle P = 70^\circ$ $\angle Q = 50^\circ$, Find:
 - $\angle PBA$
 - $\angle PAB$

c. $\angle PQR$ (Draw the diagram)

3. One card is drawn from a well shuffled deck of 52 cards. What is the probability of :

a. drawing an ace?

b. a face card?