Maths Worksheet of Chapter – 6 (Triangle and Its property)
Class - VII
Q-1. Fill in the blanks.
a)A triangle whose one angle is more than 90°is called
b)A triangle whose all the sides are of different length is called
c) The sum of the lengths of the sides of a triangle is called its
d) The sum of the lengths of two sides of a triangle is alwaysthan the third side.
e) An exterior angle and the adjacent interior angle form a
f)The sum of all the angles of a triangle is
g) In a right angled triangle the side opposite to the right angle is called
h) A triangle can not have more than one angle.
Q-2. Choose the correct option.
(i) The hypotenuse of a right triangle is 17 cm long. If one of the remaining two sides is 8 cm in length, then the length of the other side is:
(a)15 cm
(c) 13 cm
(d) none of these.
(ii).Which is the longest side in the triangle ABC right angled at B?
(a) AB
(b) BC
(c) AC
(d) none of these.





(a) 60°
(b) 40°
(c) 45°
(d) 65°
(vii).In a ΔABC, which of the given condition holds?
(a) AB-BC>C A
(b) AB+BC <ca< th=""></ca<>
(c) AB-BC <ca< th=""></ca<>
(d) AB + CA< BC
Short Answer Questions. (show calculations)
Q-2. Two angles of a triangle are of measures 75° and 35°. Find the measures of the third angle.
Q-3. Each of the two equal angles of a triangle is twice the third angle. Find the angles of the triangle.

Q-4.If the angles of a triangle are in the ratio 2:3:4, determine three angles.

Q-5. One of the acute angles of a right triangle is 58.° Find the other acute angle.

Q-6.Is it possible to have a triangle with the following sides?

a)4cm, 5 cm, 6cm

b) 2.5 cm, 3cm, 3.5cm

Q-7. Which of the following are the sides of a right angled triangle?

a)4 cm, 5cm, 6 cm

b)3cm, 4cm ,5 cm

c) 1.5, 2.5cm, 3.5cm

## Long Answer questions.

8. If one angle of a triangle is 1000 and the other two angles are in the ratio 2: 3. Find the angles.

9. In the following figure the sides BC, CA and BA of a  $\triangle$ ABC have been produced to D, E and F respectively. If  $\angle$ ACD = 1050 and  $\angle$ EAF = 450; find all the angles of the  $\triangle$ ABC.



10.A ladder 3.7 m long is placed against a wall in such a way that the foot of the ladder is 1.2 m away from the wall. Find the height of the wall to which the ladder reaches.

11.A man goes 15 m due west and then 8 m due north. How far is he from the starting point?

**12.** Find the perimeter of a rectangle with length **24** cm and diagonal **25**cm.

	Class –VII
	MathsWorksheet Of Chapter 3 (Data Handling)
	Choose the correct option.
Q-1.	a)The of a set of observations is the observation that occurs most often.
	i)mean ii) median iii) mode iv) range
	b) In a given data, arranged in ascending or descending order the
	observation.
	i)mean ii) median iii) mode iv) range
	·,····································
	c) The difference between highest and lowest observation is called
	i) mean ii)median iii)mode iv) range
	$d$ $\Lambda$ is a representation of numbers using bars of uniform width
	i) pictograph ii) pie chart iii) bar graph iv) none of these
	e) To compare two collections of data we use

	i)Pictograph ii) pie chart iii) bar graph iv) double bar graph
	Answer The Following Questions (Short Answer Questions)
	Answer The Following Questions.(Short Answer Questions)
Q-2.	Write the relation between mean, median and mode.
Q-3.	Find the arithmetic mean of first 6 natural numbers.
Q-4.	If the mean of 6, 8, 5 and x is 7 , find the value of x.
Q-5.	Find the mean of first 10 even natural numbers.
0.6	Find the mean of first E multiples of 2
Q-0.	
Q-7.	Find the median of the following distribution,
	22, 26, 25, 30, 32, 44, 36, 28, 30, 42, 40.
	Also find the mode. Are they same?
Q-8.	The mean of 10,15, 19, 30, 43, 69 and x is x. Then find out the median.
Q-9.	Following figures relate the weekly wages (in Rs) of 15 workers in a factory:
	300, 250, 200, 250, 200, 150, 350, 200, 250, 200, 150, 300, 150, 200, 250
	$(in Pa)^2$
	a)what is the range in wages (in Ks)?

-		e Betti	ng KS 350	•				
c) How many	workers a	ire getti	ing the m	inimum	wages?			
(Long Answe	r Question	s)						
Following da	ta gives to	tal mar	ks (out of	600) ob	otained b	y six childre	n of a par	ticular cl
Represent th	e data by a	a bar gr	aph.					
Students	Ajay	Ba	ali	Dipti	F	aiyaz	Gitika	Hai
Marks Obtained	450	50	00	300	3	360	400	540
Colour:		Red	Green	Blue	Yellow	Orange	2	
Colour: Number of Students of Number of s	f cl VI students	Red 43 49	Green 19 34	Blue 55 43	Yellow 49 55	Orange 34 19	2	
Colour: Number of Students of Number of s of cl VII Represent th	f cl VI students e given da	Red 43 49 ta on a	Green 19 34 Double b	Blue 55 43 ar graph	Yellow 49 55 n.	Orange 34 19		
Colour: Number of Students o Number of s of cl VII Represent th (i) Which is tl	f cl VI students e given da he most pr	Red 43 49 ta on a	Green 19 34 Double b	Blue 55 43 ar graph	Yellow 49 55 n. h is the le	Orange 34 19 east for both	e 	es?
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