Revised Exercise 17

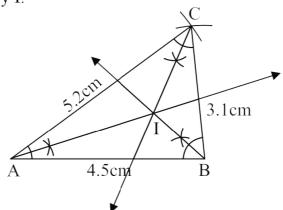
_			
Q.1	Fill in the blanks to make the stateme		
(i)	The side of right angled triangle opposite to 90° is called		
(ii)	The line segment joining a vertex of a triangle which is to the mid point of its opposite side		
····	is called a		
(iii)		which is to its opposite side is called an	
	attitude of the triangle.	1	
(iv)	The bisectors of the three angles of a triangle are		
(v)		ctor of the three sides of the triangle are	
.	from its vertices.	Called Called and Called	
(vi)			
(<u>::</u>)	corresponding sides are		
(vii)	The altitudes of a rights triangle are concurrent at theof the right angle.		
	Ans	swer Key	
	(Eth:	. the Dlauk	
		the Blank)	
	i (Hypotenuse	v Equidistant	
	ii/ Median	vi Proportional	
	iii Perpendicular	vii Vertex	
	iv Concurrent		
Q.2	Multiple Choice Questions. (Choose t	ha correct answar)	
Q.2	Munipie Choice Questions. (Choose t	me correct answer).	
(i)	The triangle having two sides congrue	ent is called	
(1)	(a) Scalene	(b) Right angled	
	(c) Equilateral	(d) Isosceles	
(ii)	A quadrilateral having each angle eq		
()	(a) Parallelogram	(b) Rectangle	
	(c) Trapezium	(d) Rhombus	
(iii)	The right bisector of the three sides o		
()	(a) Congruent	(b) Collinear	
	(c) Concurrent	(d) Parallel	
(iv)	The altitudes of an isoscel		
()	(a) Two	(b) Three	
	(c) Four	(d) None of these	
(v)	A point equidistant from the end point		
` /	(a) Bisector	(b) Right - bisector	
	(c) Perpendicular	(d) Median	
(vi)	congruent triangles can l	be made by joining the mid-point of the sides of a	
	triangle.		
	(a) Three	(b) Four	
	(c) Five	(d) Two	
(vii)	The diagonals of parallelogram	each other.	
	(a) Bisect	(b) Trisect	
	(c) Bisect at right angle	(d) None of these	

(viii)	The medians of a triangle cut each other in the ration		
	(a) 4:1	(b) 3:1	
	(c) 2:1	(d) 1:1	
(ix)	One angle on the base of an isosceles triangle is 30°. What is the measure o its vertical		
	angle		
7	(a) 30°	(b) 60°	
	(c) 90°	(d) 120°	
(x) If the three attitudes of a triangle are congruen		congruent then, the triangle will be	
	(a) Isosceles	(b) Equilateral	
	(c) Right angled	(d) Acute angled	
(xi)	If two medians of a triangle are congruent then the triangle will be		
	(a) Isosceles	(b) Equilateral	
	(c) Right angled	(d) Acute angled	
		swer Key	
		MCQ'S)	
	i d	vii a	
	ii b	viii c	
	iii c	ix d	
	iv	X	
	v	xi a	
	vi b		

Q.3 Define the following.

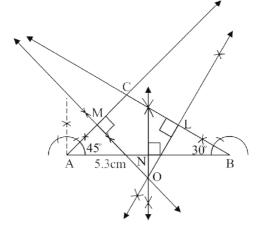
(i) Incentre

The point where the internal bisectors of the angles of a triangle meet is called incentre of a triangle. It is denoted by I.



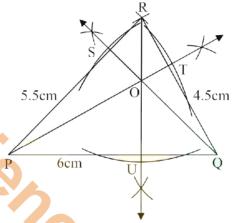
(ii) Circumcentre

The point of concurrency of the three perpendicular bisectors of the sides of a triangle is called circumcentre of a triangle. It is denoted by O.



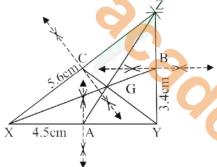
(iii) Orthocenter

The point of concurrency of three altitudes of a triangle is called orthocenter of a triangle. It is denoted by O.



(iv) Centroid

The point of concurrency of three medians of a triangle is called centroid of a triangle. It is denoted by G.



(v) Point of concurrency

Three are more than three lines are said to be concurrent if these lines pass through the same point and that point is called the point of concurrency. In the figure, P is the point of concurrency.

