ANNEXURES

$\underline{\text{Annexure} - 1}$

MATHEMATICS ACHIEVEMENT TEST CLASS VIII

Roll Number:	Section:
Name of Student: Name of School:	
Max. Marks: 50	Time: 2 Hours.
INSTRUCTIONS: 1] All questions are compulsory.	
2] Draw figures where necessary.	
Q. 1 Fill in the blanks: 1) The number of axes of symmetry of isosce (One, Two, Three, Four) 2) Rational and irrational numbers gives (Natural, Whole, Real, Integers) 3) Diameter of circle is twice that of (Circumference; Area of circle)	· · · · · · · · · · · · · · · · · · ·
4) $x^2 + 5x + 6$ is called	·
(Monomial, Binomial, Trinomia	l, Equation)
 Q.2 State whether the following statements are The cube of an even number is even. The product of odd and even number is even. Each positive rational number has two seconds. If a line divides two sides of a triangle proto the third side. 	odd number. quare roots.
 Q.3 Write formulae: 1) Area of right angled triangle. 2) Area of Trapezium. 3) Area of circle. 	(3)
Q.4 Match the pair: A a) Area of sector of circle	(4) B (i) (Side) ³
b) Area of square	(ii) $\frac{\theta}{360^0}$ X $2\pi r$
c) Length of an arc	(iii) (Side) ²
d) Volume of cube	(iv) $\theta X \pi r^2$

Q.5 Define the following: 1) Circle 2) Chord 3) Radius 4) Tangent	(4)
Q.6 Express in the form of indices: 1] Fifth root of the square of 64. 2] Cube of the cube root of 3. 3] Fourth root of 16.	(3)
Q.7 Find the two numbers such that their sum is 9 and product is 18	(4)
Q.8 If the circumference of circular ground is 88m. Find its radius and its area.	(4)
Q.9 Find the length of the hypotenuse of a right angled triangle,	(4)
if the lengths of the sides containing the right angle are 5cm, and 12cm.	
Q.10 The length of an arc is 50cm, and its angular measure is 180°. Find the circumference of the circle.	(3)
Q.11 Explain briefly the tests of similarity of triangles. (A) AAA test (B) SSS test	(4)
Q.12 A number is smaller than another number by 7. Find the numbers, if the ratio of the first with the second is 4:5	(4)
Q.13 The sides of a triangular field are 68m, 84m and 40m. What will be cost of weeding the field at the rate of Rs. 5 per sq.m.?	(5)
Q.14 The area of triangle is 84 sq.cm. Find the height of a triangle if its base is 12cm.	(4)

अनुसंघान साघन

गणित उपलब्धी परिक्षण वर्ग – 8

विद्यार्थ्याचे ना	व :		
गुण - 50		वेळ — :	2 तास
	श्न अनिवार्य. ।क तेथे आकृत्या काढा.		
प्र.1 रिकाम्या 1. 2. 3.	जागी योग्य शब्द लिहाः समिद्वमुज त्रिकोणात समिती (एक, दो, तीन, चार) परिमेय आणि अपरिमेय संख्या (नैसिगक, पूर्ण, वास्तव, प्वर्तुळाचा व्यास च्य (परिघ, वर्तुळाचे क्षेत्रफळ, त्रिज्य x^2+5x+6 ही एक(एकपदी, समी	पूर्णाक) 11 दुप्पट असतो. 11, वृत्त्तछेदिका) आहे.	2
प्र.2 खालील 1. 2. 3. 4.	विधाने सत्य किंवा असत्य हे ओ सम संख्येचा घन सम संख्या विषम आणि सम संख्यांचा गु प्रत्येक धन परिमेय संख्येस व	ळखाः असतो. णाकार विषम संख्या असतोः	2 —या
		2. समलंब चौकोनोचे क्षेत्रफळ	3
प्र.4 जोडया <i>प</i> "अ" र	जुळवा :	''ब''गट	4
अ. ब.	वर्तुळ पाकळीचे क्षेत्रफळ चौरसाचे क्षेत्रफळ	1. (ৰাजূ) 3 2. $\frac{\theta}{360^{0}}$ \times 2 π r	
<i>क</i> . ड.	वर्तुळ कंसाची लांबी घनाचे घनफळ	3. (ৰাজূ) ² 4. $\frac{\theta}{360^{\circ}}$ X π r	
प्र.5 व्याख्या f 1. वर्तु		4. स्पर्शिका	4