

ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD



Class	s:9	Subject : MATHEMATICS	Term: FINAL TERM	Max Ma	rks : 80
Q1:	The value of 8³ - 5	5³ - 3³		Marks :	1
	1. 80				
	2. 120				
	3. 360		(This Answer is Correct)		
	4. 40				
Q 2 :	The midvalue of a	class is 50 and length of the class	is 10, then lower limit of the class is	Marks :	1
	1. 45		(This Answer is Correct)		
	2. 30				
	3. 55				
	4. 60				
Q3:	Find the base whe	en logarithm of 216 is 3		Marks :	1
	1. 4				
	2. 6		(This Answer is Correct)		
	3. 0				
	4. 2				
Q4:	The side of a rhon	nbus is 10 cm and if the length of or	ne diagonal is 6cm, then length of the other	Marks :	1
	1 . 14 cm				
	2.8cm				
	3 . 10 cm				
	4 • 12 cm		(This Answer is Correct)		
Q 5 :	The distance betw	veen the points (9, 0) and (0, - 12)	is	Marks :	1
	1 . 10 units				
	2 . 12 units				
	3 . 15 units		(This Answer is Correct)		
	4 . 11 units				

Q6:	The zeros of the polynomial $x^2 + x$, are		Marks :	1
	1.0,2			
	2. 1,2			
	3. 0, - 1	(This Answer is Correct)		
	4.0,1			
Q7:	A point is on y axis whose ordinate is 5 and another point is (-3, 1)	. The distance between them is	Marks :	1
	1 . 10 units			
	2. 2 units			
	3. 3 units			
	4 . 5 units	(This Answer is Correct)		
Q8:	The number of rational numbers between two irrational numbers is		Marks :	1
	1 . only two	(This Answer is Correct)		
	2 . none			
	3 . infinite			
	4 anly and			
	4. only one			
Q9:	Which of the numbers given below is multiplied with $\sqrt{3}$ to give a rati	ional number	Marks :	1
Q9:	Which of the numbers given below is multiplied with $\sqrt{3}$ to give a ration 1 . $\sqrt{2}$	ional number	Marks :	1
Q9:	Which of the numbers given below is multiplied with $\sqrt{3}$ to give a rati		Marks :	1
Q9:	Which of the numbers given below is multiplied with $\sqrt{3}$ to give a rate 1 . $\sqrt{2}$ 2 . $\sqrt{3}$ 3 . $2\sqrt{3}$	ional number (This Answer is Correct)	Marks :	1
Q9:	Which of the numbers given below is multiplied with $\sqrt{3}$ to give a ration 1 . $\sqrt{2}$ 2 . $\sqrt{3}$		Marks :	1
Q 9 :	Which of the numbers given below is multiplied with $\sqrt{3}$ to give a rate 1 . $\sqrt{2}$ 2 . $\sqrt{3}$ 3 . $2\sqrt{3}$		Marks :	1
	Which of the numbers given below is multiplied with $\sqrt{3}$ to give a rate 1 . $\sqrt{2}$ 2 . $\sqrt{3}$ 3 . $2\sqrt{3}$ 4 . $\sqrt{5}$			
	Which of the numbers given below is multiplied with $\sqrt{3}$ to give a ration 1 . $\sqrt{2}$ 2 . $\sqrt{3}$ 3 . $2\sqrt{3}$ 4 . $\sqrt{5}$	(This Answer is Correct)		
	Which of the numbers given below is multiplied with $\sqrt{3}$ to give a rate $1. \sqrt{2}$ $2. \sqrt{3}$ $3. 2\sqrt{3}$ $4. \sqrt{5}$ The triangle formed by the points (5,0), (-5, 0) and (0,5) is	(This Answer is Correct)		
	Which of the numbers given below is multiplied with $\sqrt{3}$ to give a rate $1. \sqrt{2}$ $2. \sqrt{3}$ $3. 2\sqrt{3}$ $4. \sqrt{5}$ The triangle formed by the points (5,0), (-5, 0) and (0,5) is $1.$ equilateral $2.$ isosceles	(This Answer is Correct)		
	Which of the numbers given below is multiplied with $\sqrt{3}$ to give a rate $1. \sqrt{2}$ $2. \sqrt{3}$ $3. 2\sqrt{3}$ $4. \sqrt{5}$ The triangle formed by the points (5,0), (-5, 0) and (0,5) is $1.$ equilateral $2.$ isosceles $3.$ scalene	(This Answer is Correct)		
Q 10 :	Which of the numbers given below is multiplied with $\sqrt{3}$ to give a rational 1. $\sqrt{2}$ 2. $\sqrt{3}$ 3. $2\sqrt{3}$ 4. $\sqrt{5}$ The triangle formed by the points (5,0), (-5, 0) and (0,5) is 1. equilateral 2. isosceles 3. scalene 4. rhombus	(This Answer is Correct)	Marks :	1
Q 10 :	Which of the numbers given below is multiplied with $\sqrt{3}$ to give a rate 1. $\sqrt{2}$ 2. $\sqrt{3}$ 3. $2\sqrt{3}$ 4. $\sqrt{5}$ The triangle formed by the points (5,0), (-5, 0) and (0,5) is 1. equilateral 2. isosceles 3. scalene 4. rhombus	(This Answer is Correct)	Marks :	1

4.5

Q 12: A point is on y axis whose ordinate is 5 and another point is (-3, 1). The distance between them is Marks: 1

- 1. 10 units
- 2. 2 units
- 3. 3 units
- **4** . 5 units

(This Answer is Correct)

Q 13: In which of the following geometric figures the diagonals intersect each other at right angle?

(This Answer is Correct)

- 1 . rhombus
- 2. rectangle
- 3. trapezium
- 4. parallelogram

Q 14: The ratio of selling price and loss of a thing is 4:1. Then the loss percentage is Marks: 1

- 1. 25%
- 2. 15%
- 3. 22%
- 4.20%

(This Answer is Correct)

Q 15: The distance between the points (9, 0) and (0, -12) is

Marks: 1

Marks: 1

- 1. 10 units
- 2. 12 units
- **3** . 15 units
- 4. 11 units

(This Answer is Correct)

Q 16: If $2 \times 5^{x} = 5 \times 2^{x}$, then the value of x is

Marks: 1

- 1. 0
- 2. 2
- **3.** 1
- 4.5

(This Answer is Correct)

Q 17: If $(3x + 2y - 12)^2 + (x + 2y - 8)^2 = 0$, then the value of x - y is

Marks: 1

1. 2

	2. 0			
	3. 1			
	4. -1	(This Answer is Correct)		
Q 18 :	Which of the numbers given below is multiplied with $\sqrt{3}$ to give a rate	tional number	Marks:	1
	1. √2			
	2. √3			
	3. 2√3	(This Answer is Correct)		
	4. √5			
Q 19 :	In which of the following geometric figures the diagonals intersect e	each other at right angle?	Marks :	1
	1 . rhombus	(This Answer is Correct)		
	2 . rectangle	_		
	3 . trapezium			
	4 . parallelogram			
Q 20 :	The value of 101 x 99 is		Marks :	1
Q 20 .	1.9999	(This Answer is Correct)		
	2. 9990	,		
	3. 9998			
	4. 10001			
	1. 10001			
Q 21 :	The triangle produced by joining the points (-3, 1) (1 , -2) and (1	, 4) is	Marks :	1
	1. equilateral			
	2. isosceles	(This Answer is Correct)		
	3. scalene			
	4. right angled			
Q 22 :	If $3x = 9$ Y, then value of x : y is		Marks :	1
	1. 1:1			
	2. 1:2			
	3. 2:1	(This Answer is Correct)		
	4. 4:1			

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If $(3x + 2y - 12)^2 + (x + 2y - 8)^2 = 0$, then the value of x - y is

Marks: 1

Q 23:

1. 2

	2. 0			
	3. 1			
	4. -1	(This Answer is Correct)		
Q 24 :	The value of 8^3 - 5^3 - 3^3		Marks:	1
	1. 80			
	2. 120			
	3 . 360	(This Answer is Correct)		
	4. 40			
Q 25 :	The value of 101 x 99 is		Marks :	1
	1.9999	(This Answer is Correct)		
	2. 9990			
	3. 9998			
	4. 10001			
	triangle is 1. (3,1) 2. (2,3) 3. (1,1) 4. (1,3)	(This Answer is Correct)		
Q 27 :	If the co ordinates of A, B and C are (6,0), (-6, 0) and (6,6),	then the area of Δ ABC will be	Marks :	1
	1 . 16 sq units			
	2 . 36 sq units	(This Answer is Correct)		
	3 . 48 sq units			
	4 . 54 sq units			
Q 28 :	If the equation $3x + 4y = 5$ and $3x + ky = 6$ have no solution, t	hen k =	Marks :	1
	14			
	2. 5			
	3.6			
	4. 4	(This Answer is Correct)		

Q 29 :	The triangle formed by the points $(5,0)$, $(-5,0)$ and $(0,5)$ is	Marks:	1
	1 . equilateral (This Answer is Correct)		
	2. isosceles		
	3 . scalene		
	4 . rhombus		
Q 30 :	In a number if digit in the unit's place be y and digit in ten's place be x, then the number will be	Marks :	1
	1. 10y + x		
	2. 10x + y (This Answer is Correct)		
	3. xy		
	4 . x + y		
Q 31 :	In which quadrant does the point (2 , - 4) lie	Marks :	1
	1. first		
	2. second		
	3. third		
	4. fourth (This Answer is Correct)		
Q 32 :	The number of irrational numbers between two rational numbers is	Marks :	1
	1. none		
	2 . infinite (This Answer is Correct)		
	3. 2		
	4. 1		
Q 33:	BE and CD are two medians of a Δ ABC. If the length of BC is 11 cm, then the length of DE will be	Marks :	1
Q 33 :	BE and CD are two medians of a Δ ABC. If the length of BC is 11 cm, then the length of DE will be 1 . 8 cm	Marks:	1
Q 33 :		Marks:	1
Q 33 :	1 . 8 cm	Marks:	1
Q 33 :	1 . 8 cm 2 . 10 cm	Marks:	1
Q 33 :	1 . 8 cm 2 . 10 cm 3 . 7 cm	Marks :	
	1 . 8 cm 2 . 10 cm 3 . 7 cm 4 . 5 cm (This Answer is Correct)		
	1 . 8 cm 2 . 10 cm 3 . 7 cm 4 . 5 cm (This Answer is Correct) The permeter of the parallelogram ABCD is 32 cm. If AB = 8.5 cm, then the length of the side AD is		
	 8 cm 10 cm 7 cm 5 cm (This Answer is Correct) The permeter of the parallelogram ABCD is 32 cm. If AB = 8.5 cm, then the length of the side AD is 9 cm 		

Q 35 :	The triangle formed by the points (3, 3), (8, -2) and (-2, -2) is		warks:	1
	1 . equilateral	(This Answer is Correct)		
	2. isosceles			
	3. scalene			
	4 . right angled			
Q 36 :	The length of the class of 11 - 20 , 21 - 30 ,is		Marks :	1
	1 . 10	(This Answer is Correct)		
	2. 8			
	3. 12			
	4. 6			
Q 37 :	If a thing is sold at Rs. 510, the loss is 15%, then the cost of the thi	ng is	Marks :	1
	1 . Rs. 500			
	2 . Rs. 600	(This Answer is Correct)		
	3 . Rs. 300			
	4 . Rs. 400			
Q 38 :	If the two factors of m³ - m are m and m - 1 , then the third factor is		Marks :	1
	1. m² - 1			
	2. m+ 1	(This Answer is Correct)		
	3. m ² + 1			
	4 . m ²			
Q 39 :	If the greater angle of a parallelogram is 54° more than twice the sr is	maller angle, then the greater angle	Marks :	1
	1. 128°			
	2. 138°	(This Answer is Correct)		
	3. 132°			
	4 . 142°			
Q 40 :	AD is a median of a Δ ABC, and G is the centroid. Then AD : AG is	s	Marks :	1
	1. 2:1			
	2. 1:2			
	3. 2:3			
	4. 3:2	(This Answer is Correct)		

Q 41 :	Perimeter of the parallelogram ABCD is 36 cm. If AB = 9.5 cm, the	n length of the side AD is	Marks:	1
	1 . 8 cm			
	2. 9 cm			
	3 . 8.5 cm	(This Answer is Correct)		
	4 . 10 cm			
Q 42 :	The point where x axis and y axis intersect is called		Marks :	1
	1. abscissa			
	2 . ordinate			
	3. origin	(This Answer is Correct)		
	4. quadrant			
Q 43 :	$(x + 3)$ is a factor of $x^3 + 6x^2 + 12x + k$, if k is equal to		Marks :	1
	1. 6			
	2.9	(This Answer is Correct)		
	36	_		
	49			
Q 44 :	The triangle formed by the points (3, 3), (8, -2) and (-2, -2) is		Marks :	1
	1 . equilateral	(This Answer is Correct)		
	2. isosceles	_		
	3 . scalene			
	4 . right angled			
Q 45 :	If the points (8,1), (k, -4) and (2, -5) are collinear then the value	e of k is	Marks :	1
	1.3	(This Answer is Correct)		
	2. 0	_		
	3. 2			
	4. 1			
Q 46 :	The co ordinates of the centre of a circle are (0,0) and the cordinat -3,4). The length of the radius of the circle is	es of a point on the circle are (Marks :	1
	1 . 5 units	(This Answer is Correct)		
	2 . 4 units	_ -		
	3. 3units			
	4 10 units			

Q 47 :	The length of the class 1 - 5 , 6 - 10, is		Marks :	1
	1. 4.5			
	2. 4			
	3. 5	(This Answer is Correct)		
	4. 5.5			
Q 48 :	The length of the class of 11 - 20 , 21 - 30 ,is		Marks :	1
	1 . 10	(This Answer is Correct)		
	2. 8			
	3. 12			
	4. 6			
Q 49 :	AD is a median of a Δ ABC, and G is the centroid. Then AD : AG is		Marks :	1
	1. 2:1			
	2. 1:2			
	3. 2:3			
	4. 3:2	(This Answer is Correct)		
Q 50 :	The point of intersection of the three perpendiculars drawn from the	vertices of a triangle is called	Marks :	1
	1. centroid			
	2 . incentre			
	3. orthocentre	(This Answer is Correct)		
	4 . circumcentre			
Q 51 :	4. circumcentre The range of the statistical data 9 , 7 , 11 , 8 , 6 . 18 , 13 , 21 , 14 , 5	5 , is	Marks :	1
Q 51 :		5 , is	Marks :	1
Q 51 :	The range of the statistical data 9 , 7 , 11 , 8 , 6 . 18 , 13 , 21 , 14 , 5	5 , is (This Answer is Correct)	Marks :	1
Q 51 :	The range of the statistical data 9 , 7 , 11 , 8 , 6 . 18 , 13 , 21 , 14 , 5	_	Marks :	1
Q 51 :	The range of the statistical data 9,7,11,8,6.18,13,21,14,5	_	Marks :	1
Q 51 :	The range of the statistical data 9, 7, 11, 8, 6.18, 13, 21, 14, 5 1. 14 2. 16 3. 12	_	Marks :	1
	The range of the statistical data 9, 7, 11, 8, 6.18, 13, 21, 14, 5 1. 14 2. 16 3. 12 4. 10	_		
	The range of the statistical data 9,7,11,8,6.18,13,21,14,5 1. 14 2. 16 3. 12 4. 10 The point where x axis and y axis intersect is called	_		
	The range of the statistical data 9, 7, 11, 8, 6.18, 13, 21, 14, 5 1. 14 2. 16 3. 12 4. 10 The point where x axis and y axis intersect is called 1. abscissa	_		

Q 53 :	The diagonals of a parallelogram are		Marks:	1
	1. equal			
	2. unequal	(This Answer is Correct)		
	3. parallel	_		
	4 . perpendicular			
Q 54 :	The co ordinates of P, Q, R and S are (0,3), (3,3), (3,0) diagram PQRS is	and (0,0). Joining these four points the	Marks:	1
	1 . rhombus			
	2 . rectangles	<u></u>		
	3. square	(This Answer is Correct)		
	4. circle			
Q 55 :	There is 5% loss if an article is sold at Rs. 22.80. The cos	st price of the article is	Marks :	1
	1 . Rs. 30			
	2 . Rs. 12			
	3 . Rs. 24	(This Answer is Correct)		
	4 . Rs. 20			
Q 56 :	The length of the class 1 - 5 , 6 - 10, is		Marks :	1
	1. 4.5			
	2.4			
	3. 5	(This Answer is Correct)		
	4 . 5.5			
Q 57 :	There is 5% loss if an article is sold at Rs. 22.80. The cos	st price of the article is	Marks :	1
	1 . Rs. 30			
	2 . Rs. 12			
	3 . Rs. 24	(This Answer is Correct)		
	4 . Rs. 20			
Q 58 :	The distance of the point (- 5 , - 7) from the y axis is		Marks :	1
	1 . 5 units	(This Answer is Correct)		
	2 . 7 units	_		
	3 . 2 units			

4	12	unts

Q 59 :	The point of intersection of the three perpendiculars drawn from the vertices of a triangle is called	Marks :	1
	1. centroid		
	2. incentre		
	3 . orthocentre (This Answer is Correct)		
	4 . circumcentre		
Q 60 :	The number of irrational numbers between two rational numbers is	Marks :	1
	1. none		
	2. infinite (This Answer is Correct)		
	3. 2		
	4. 1		
Q 61 :	If there is 20% profit on selling price, then the rate of profit on cost price is	Marks :	1
	1 . 25% (This Answer is Correct)		
	2 . 18%		
	3. 24%		
	4. 22%		
Q 62 :	The co ordinates of a point which is equidistant from the points (1, 0) and (-1, 4) is	Marks :	1
	1. (-4,4)		
	2. (4,-4)		
	3. (4,4) (This Answer is Correct)		
	4. (-4,-4)		
Q 63 :	If the measure of an angle of a parallelogram is half of its complementary angle, then the complementary angle is	Marks :	1
	1 . 120° (This Answer is Correct)		
	2 . 30°		
	3 . 150°		
	4 . 60°		
	If the points (4.0), (4.0) and (Ch) are collinged that the color of his	Made	4
Q 64 :	If the points (-4,0), (4,0) and (6,k) are collinear then the value of k is	Marks:	1

1. 3

	2. 23. 04. 1	(This Answer is Correct)		
Q 65 :	The perpendicular distance of the point (5,7) from y axis is 1.5 2.7 3.12 4.2	(This Answer is Correct)	Marks :	1
Q 66 :	If $a + b - c = 9$ and $a^2 + b^2 + c^2 = 31$, then the value of $bc + ca - ab$ is 120 2. 20 325 4. 25	(This Answer is Correct)	Marks :	1
Q 67 :	If the straight line $2x + 3y + c = 0$ passes through the point (1, -2) 1. 5 cm 2. 4 cm 3. 7 cm 4. 12 cm	then the value of c is	Marks :	1
Q 68 :	The co ordinates of a point which is equidistant from the points (1, 0, 1, (-4, 4)) 2. (4, -4) 3. (4,4) 4. (-4, -4)	(This Answer is Correct)	Marks :	1
Q 69 :	Between the same base and same parallels, the area of the triangle parallelogram 1	will be the area of the	Marks :	1

Q 70 :	Between the same base and same parallels, the area of the triangle will be the area of the parallelogram			1
	1. half	(This Answer is 0	Correct)	
	2. equal	_		
	3. twice			
	4. thrice			
Q 71 :	The point (0 , - 5) will lie on		Marks:	1
	1. x axis			
	2 . 2nd quadrant			
	3. y axis	(This Answer is 0	Correct)	
	4.4th quadrant			
Q 72 :	If the straight line $2x + 3y + c = 0$ passes through the point (1, -2) then the value of c is	Marks:	1
	1 . 5 cm			
	2.4 cm	(This Answer is 0	Correct)	
	3 . 7 cm	_		
	4 . 12 cm			
Q 73 :	The solution of the equations $2x + 5y = 8$ is		Marks:	1
	1. -5	(This Answer is 0	Correct)	
	2. 5			
	3. 4			
	44			
Q 74 :	The point (0 , - 5) will lie on		Marks:	1
	1. x axis			
	2 . 2nd quadrant			
	3 . y axis	(This Answer is 0	Correct)	
	4. 4th quadrant			
Q 75 :	A is a point on y axis whose ordinate is 4, and B is a point on x axi length of AB is	s whose abscissa is -3. Th	nen the Marks :	1
	1. 3 units			
	2 . 5 units	(This Answer is 0	Correct)	
	3 . 4 units			
	4. 8 units			

Q 76 :	If the line joining the points A $(-1, 5/3)$ and B $(a, 5)$ is divided by the y axis in the ratio 1 : 3, then value of a is	the Marks: 1	
	1. 6		
	2. 2		
	3.3 (This Answer is Corre	ct)	
	4. 4		
Q 77 :	If the ratio of cost price and selling price is 4 : 5, then the profit percentage is		
	1. 20%		
	2. 10%		
	3 . 25% (This Answer is Corre	ct)	
	4 . 15%		
Q 78 :	If the straight line $3x + 6y + 5 = 0$ and $2x - my + 5 = 0$ are parallel, then the value of m is	Marks: 1	
	1. 4		
	21		
	3. 1		
	44 (This Answer is Corre	ct)	
Q 79 :	The sum of the factors of a^2 - b^2 - c^2 + 2bc is	Marks: 1	
	1. 2a (This Answer is Corre	ct)	
	2. a+b+c		
	3. a-b-c		
	4. a-b+c		
Q 80 :	The solution of the equations $2x + 5y = 8$ is	Marks: 1	
	15 (This Answer is Corre	ct)	
	2. 5		
	3. 4		
	44		