

ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD



Class	s: 7	Subject : ALG/GEOM	Term : FINAL TERM	Max Marks: 80
Q1:	If base = 7 cm and I	hypotenuse = 25 cm what is the per	pendicular in cm?	Marks: 1
	1. 10			
	2. 14			
	3. 19			
	4 . 24		(This Answer is Corre	ct)
Q 2 :	If base = 6 cm and	perpendicular = 8 cm what is the hy	potenuse in cm?	Marks: 1
	1. 9		_	
	2. 10		(This Answer is Corre	ct)
	3. 13			
	4. 17			
Q3:	If base = 20 cm and	perpendicular = 21 cm what is the	hypotenuse in cm?	Marks: 1
	1. 24			
	2. 27		_	
	3. 29		(This Answer is Corre	ot)
	4. 35			
Q4:	If hypotenuse = 17 o	cm and base = 15 cm what is the pe	erpendicular in cm?	Marks: 1
	1. 5			
	2. 8		(This Answer is Corre	ct)
	3. 7			
	4. 12			
Q 5 :	If hypotenuse = 13 o	cm, perpendicular = 5 cm, what is th	ne base in cm?	Marks: 1
	1. 9			
	2. 10			
	3. 11			
	4. 12		(This Answer is Corre	ct)

Q6:	: The number of letters in the word SNAIL that have symmetry is			1
	1. 0			
	2. 1			
	3. 2	(This Answer is Correct)		
	4. 3			
Q7:	Which of the following does not have a line of symmetry?		Marks :	1
	1. C			
	2. 3			
	3. 69	(This Answer is Correct)		
	4. O			
Q8:	Which of the following has a line of symmetry?		Marks :	1
	1. S			
	2 . a parallelogram			
	3 . a swastika			
	4. 8	(This Answer is Correct)		
Q9:	The order of rotational symmetry of an octagon is		Marks :	1
	1. 4			
	2. 6			
	3. 8	(This Answer is Correct)		
	4. 2			
Q 10 :	Which of the following letters does not have a line symmetry?		Marks :	1
	1. H			
	2. I			
	3. Z	(This Answer is Correct)		
	4 . X			
Q 11 :	What is the number of lines of symmetry for a regular hexagon?		Marks :	1
	1. 2			
	2. 4			
	3. 6	(This Answer is Correct)		
	4.8			

Q 12 :	2: What is the order of rotational symmetry for a regular hexagom?		Marks:	1
	1. 2			
	2. 4			
	3. 6	(This Answer is Correct)		
	4. 8			
Q 13 :	Which of these has infinite lines of symmetry and an infinite order symmetry?	rotational symmetry and a point	Marks :	1
	1 . semi circle			
	2. Ellipse			
	3. Circle	(This Answer is Correct)		
	4 . Parallelogram			
Q 14 :	How many lines of symmetry are there in an equilateral triangle?		Marks :	1
	1. 0			
	2. 1			
	3. 2			
	4. 3	(This Answer is Correct)		
Q 15 :	How many lines of symmetry are there in a square?		Marks :	1
	1.4	(This Answer is Correct)		
	2. 3			
	3. 2			
	4. 1			
Q 16 :	How many lines of symmetry are there in a rectangle?		Marks :	1
	1. 3	7 (-1)		
	2. 2	(This Answer is Correct)		
	3. 1			
	4. 0			
Q 17 :	How many lines of symmetry are there in a regular pentagon?		Marks :	1
	1. 1			
	2. 3			
	3. 5	(This Answer is Correct)		
	A 7			

Q 18 :	How many lines of symmetry are there in the letter M?		Marks :	1
Q 10.	1. 1	(This Answer is Correct)		
	2. 2			
	3.3			
	4. 4			
Q 19 :	How many lines of symmetry are there in a kite?		Marks :	1
	1. 3			
	2. 2			
	3. 1	(This Answer is Correct)		
	4. 0	_		
Q 20 :	How many lines of symmetry are there in a rhombus?		Marks :	1
	1. 1			
	2. 2	(This Answer is Correct)		
	3. 3			
	4. 4			
Q 21 :	What is the sum of the interior angles of a triangle?		Marks :	1
	1. 60			
	2. 80			
	3. 90			
	4. 180	(This Answer is Correct)		
Q 22 :	What is the measure of ONE interior angle in a regular pentagon ((5-sides)?	Marks :	1
	1. 90			
	2. 108	(This Answer is Correct)		
	3. 120			
	4. 180			
Q 23 :	What is the sum of the interior angles of a nonagon (9 sides)?		Marks :	1
	1 . 1440			
	2. 900			
	3. 1080			
	4. 1260	(This Answer is Correct)		

Q 24 :	Find the angle sum of the interior angles of the hexagon.		Marks :	1
	1. 180			
	2. 540			
	3. 720	(This Answer is Correct)		
	4. 1080			
Q 25 :	What is the name of a 7 sided polygon?		Marks :	1
	1. hexagon			
	2 . heptagon	(This Answer is Correct)		
	3. dodecagon			
	4. octagon			
Q 26 :	How many sides does an octagon have?		Marks :	1
	1. 6			
	2.8	(This Answer is Correct)		
	3. 10			
	4. 12			
Q 27 :	What is the sum of the exterior angles in a decagon?		Marks :	1
	1. 10			
	2 . 360	(This Answer is Correct)		
	3. 361	_		
	4. 441			
Q 28 :	Which formula is used to find the sum of the interior angles of	a polygon?	Marks :	1
	1. 180			
	2 . (n-2)180 ÷ n			
	3. (n-2)180	(This Answer is Correct)		
	4 . n(n-3)/2	_		
Q 29 :	If the measure of an exterior angle of a regular polygon is 24° have?	, how many sides does the polygon	Marks :	1
	1. 12			
	2. 13			
	3. 14			

(This Answer is Correct)

4 . 15

Q 30 :	What is a polygon? 1. A closed figure made up of straight line segments 2. An open figure made up of straight line segments 3. A closed figure made up of curved edges 4. An closed figure made up of crossed line segments A polygon's interior angles add up to 2700. How many sides does the polygon have?	Marks :	1
	1. 17 (This Answer is Correct)		
	2. 19		
	3. 15		
	4. 11		
Q 32 :	Find the number of sides of a regular polygon with one interior angle measuring 165°	Marks :	1
	1. 20		
	2. 22		
	3. 24 (This Answer is Correct)		
	4. 26		
Q 33 :	The plane figure which consists of three or more edges as its sides is called	Marks :	1
	1. polygon (This Answer is Correct)		
	2 . equilateral polygon		
	3 . isosceles polygon		
	4 . scalene triangle		
Q 34 :	The plane with four edges as its sides is called	Marks :	1
	1 . quadrilateral (This Answer is Correct)		
	2 . pentagon		
	3 . nonagon		
	4 . decagon		
Q 35 :	The type of polygon in which its all angles and sides are equal is classified as	Marks :	1

regular octagon
 regular hexagon

	3 . regular polygon	(This Answer is Correct)		
	4 . regular pentagon			
Q 36 :	The product of -8x^2 y and 3x^3 y^3 is		Marks :	1
	1 24x^5 y^4	(This Answer is Correct)		
	2 . 24x^5 y^4			
	38x^6 y^4			
	4.			
	3x^24 y^5			
Q 37 :	(x+2)x(x+6) gives		Marks :	1
	1 • x^2+8x -12	(This Answer is Correct)		
	2 . x^2+8x +12	_		
	3 . x^2+6x +2			
	4 . x^2+2x +6			
Q 38 :	(p-2q/3)(p+2q/3)gives		Marks :	1
	1 . p^2-(4q^2)/9	(This Answer is Correct)		
	2 . p^2+(4q^2)/9	_		
	3 . p^2-(4q^2)/9+4pq/3			
	4 . p^2-(4q^2)/9-4pq/3			
Q 39 :	Simplify 6a^2+2a(4a +3b)-12ab		Marks :	1
	1 . 14a^2-6ab	(This Answer is Correct)		
	2 . 14a^2-18ab			
	3 . 14a^2-12ab + 3b			
	4 . 14a^2-12ab +2a +3b			
Q 40 :	Find the product of 2x^2. (3x-4y).4xy. (x+2y)		Marks :	1
	1 • 24x^5 y + 16x^4 y^2-64x^3 y^3	(This Answer is Correct)		
	2 . 24x^5 y + 16x^4 y^2+64x^3 y^3			
	3 . 24x^5 y - 16x^4 y^2-64x^3 y^3			
	4 . 24x^5 y + 64x^4 y^2-16x^3 y^3			

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Divide 12x^3 by 3x

Q 41 :

Marks: 1

1. 4

	2. 4x 3. 4x^2 4. 12	(This Answer is Correct)		
Q 42 :	Divide 4a^3+8a^4 by 4a 1	(This Answer is Correct)	Marks :	1
Q 43 :	Divide a^2+4a + 4 by a+2 1. a-2 2. a+2 3. 4a+4 4. a^2+2a	(This Answer is Correct)	Marks :	1
Q 44 :	Divide -8/9 x^4 y^3 by -4/27 x^3 y^2 1. 3 x^2 y 2. 2 x y^2 3. 6xy 4. 3x/2y	(This Answer is Correct)	Marks :	1
Q 45 :	Divide x^2-3x +2 by x+2 1	(This Answer is Correct)	Marks :	1
Q 46 :	Simplify 8+(a-2) 1	(This Answer is Correct)	Marks :	1

Q 47 :	Simplify 5+2(a-2)		Marks:	1
	1 . 2a +1	(This Answer is Correct)		
	2 . 2a-1			
	3 . 1-2a			
	4 . 2a			
Q 48 :	Simplify 6a-(8a-3)		Marks :	1
	1 . 3-2a	(This Answer is Correct)		
	2 . 2a-3			
	3 . 3a-2			
	4 . 2-3a			
Q 49 :	Simplify p-3(p-q)		Marks :	1
	1 . 3p-2q			
	2 . 3q-2p	(This Answer is Correct)		
	3 . 2p+3q			
	4 . 2q-3p			
Q 50 :	Simplify a(a-b)-b(b-a)		Marks :	1
	1 . a^2-2ab +b^2			
	2 . a^2+2ab + b^2			
	3 . a^2+ab -b^2			
	4 • a^2-b^2	(This Answer is Correct)		
Q 51 :	(x + 3)(x-3)		Marks :	1
	1. x^2 +6x+9			
	2. x^2 -9	(This Answer is Correct)		
	3 . x^2 +9			
	4 . x+6x^2 +6			
Q 52 :	(3a + 4)(3a-4)		Marks :	1
	1 • 9a2-16	(This Answer is Correct)		
	2 . 9a^2+24a+16	_		
	3 . 9a^2+12a+8			
	4 . 9a^2+24a+8			

Marks: 1

Q 53:

(x-5)(x+5)

	1 . x^2 -10x+25			
	2. x ² - 25	(This Answer is Correct)		
	3 . x^2 -10	_		
	4 . x+25x^2 +25			
Q 54 :	(3c + 6d)(3c -6d)		Marks:	1
	1 . 9c^2 + 36cd + 36d^2			
	2 • 9c^2 -36d^2	(This Answer is Correct)		
	3 . 6c^2 + 36cd + 12d^2			
	4 . 6c^2 + 9cd + 12d^2			
Q 55 :	(5x - 2)(5x+2)		Marks :	1
	1. 25x^2 - 20x + 4			
	2. 25x^2 + 3x + 4			
	3 . 25x^2 + 6x + 4			
	4 . 25x^2 - 4	(This Answer is Correct)		
Q 56 :	(5a^5 - 2b) (5a^5 + 2b)		Marks :	1
	1 . 10a^10+ 4b^2			
	2 . 25a^10 - 20a5b + 4b^2			
	3 . 25a^10 + 10a5b + 10b^2			
	4 • 25a^10 -4b^2	(This Answer is Correct)		
Q 57 :	(a+b)(a-b)		Marks :	1
	1 . a^2-b^2	(This Answer is Correct)		
	2 . a^2+4ab+b^2			
	3 . a^2+2ab+b^2			
	4 . 2a^2+4ab+2b^2			
Q 58 :	(x + 4)(x-4)		Marks :	1
	1 . x^2 +8x+16			
	2 . x^2 +16			
	3. x^2 -16	(This Answer is Correct)		
	4 . x+6x^2 +8			

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Q 59 :	(3a - 5)(3a +5)		Marks:	1
	1 . 9a^2-25	(This Answer is Correct)		
	2 . 9a^2+25a+25	_		
	3 . 9a^2-10a+10			
	4 . 9a^2+10a+25			
	(v. 25)(v. 25)		Mauka	4
Q 60 :	(x+25)(x-25)		Marks:	1
	1 . x^2 +50x+625	(This Answer is Correct)		
	2. x^2 – 625	(This Aliswer is correct)		
	3 . x^2 -50			
	4 . x+625x^2 +625			
Q 61 :	(2x-y)(2x+y)		Marks :	1
	1 . 4x^2-4xy+y^2			
	2 . 4x^2+y^2			
	3 • 4x^2-y^2	(This Answer is Correct)		
	4 . 4x^2+4xy+y^2			
Q 62 :	(x-7)(x+7)		Marks :	1
	1 . x^2-14x+49			
	2. x^2-49	(This Answer is Correct)		
	3 . x^2+49	<u>—</u>		
	4 . x^2+14x-49			
Q 63 :	(2x+9)(2x-9)		Marks :	1
	1 . 4x^2-36x-81			
	2 . 4x^2+36x+81			
	3 . 4x^2+81			
	4 • 4x^2-81	(This Answer is Correct)		
Q 64 :	(6 - 2y)(6 + 2y)		Marks :	1
,	1 . 36-4y^2	(This Answer is Correct)		
	2 . 4y^2-36			
	3 . 36-24y+4y^2			
	4 . 4y^2-24y-36			

Marks: 1

Q 65:

Rule for rotation

	1 . You must turn the shape 90, 180 or 270 degrees	(This Answer is Correct)		
	2 You must move the shape without altering the layout	_		
	3 . Must flip the shape on the mirror/reflection line			
	4 . None of these			
Q 66 :	A turn is also called a		Marks :	1
	1 . Rotation	(This Answer is Correct)		
	2 . reflection			
	3 . translation			
	4. None of these			
Q 67 :	The point about which rotation takes place is called		Marks :	1
	1 . centre of rotation	(This Answer is Correct)		
	2 . centroid of rotation	_		
	3 . central rotation			
	4 . point of symmetry			
Q 68 :	Direction of rotation can be explained as		Marks:	1
	1. top			
	2. left			
	3. up			
	4 . clockwise	(This Answer is Correct)		
Q 69 :	The line across which reflection takes place is called		Marks :	1
	1. mirror line			
	2 . reflection line			
	3 . line of symmetry			
	4. all of these	(This Answer is Correct)		
Q 70 :	In a triangle PQR if ∠QPR = 80° and PQ = PR, then ∠R and ∠Q are		Marks :	1
Q(10.	1. 80°, 80°			•
	2 . 70°, 80°			
	3. 50°, 50°	(This Answer is Correct)		
	4. 70°, 70°	<i>'</i>		

Q 71 :	The total measure of the three angles of a triangle is ————		1
	1. 45°		
	2. 90°		
	3. 180° (This Answer is Correct)		
	4 . 360°		
Q 72 :	If the two angles of a triangle are 50 degree and 70 degree, then the measure of third angle isdegree	_ Marks :	1
	1. 50		
	2. 60 (This Answer is Correct)		
	3. 70		
	4. 80		
Q 73 :	In a right angled triangle, if one angle is 45 degree then the measure of the third angle is ——	Marks :	1
	1. 45° (This Answer is Correct)		
	2 . 90°		
	3. 80°		
	4. 60°		
Q 74 :	In a triangle if all angles are equal, then the measure of each angle is ———-	Marks:	1
Q 74 :	In a triangle if all angles are equal, then the measure of each angle is ———- 1 . 45°	Marks :	1
Q 74 :		Marks :	1
Q 74 :	1 . 45°	Marks:	1
Q 74 :	1 . 45° 2 . 90°	Marks:	1
Q 74 :	1 . 45° 2 . 90° 3 . 80°	Marks :	1
	1. 45° 2. 90° 3. 80° 4. 60° (This Answer is Correct)		
	 1. 45° 2. 90° 3. 80° 4. 60° (This Answer is Correct) Which is the longest side of a right angled triangle?		
	 1. 45° 2. 90° 3. 80° 4. 60° Which is the longest side of a right angled triangle? 1. base 		
	1. 45° 2. 90° 3. 80° 4. 60° Which is the longest side of a right angled triangle? 1. base 2. perpendicular		
	1. 45° 2. 90° 3. 80° 4. 60° Which is the longest side of a right angled triangle? 1. base 2. perpendicular 3. hypotenuse (This Answer is Correct)		
Q 75 :	 45° 90° 80° 60° (This Answer is Correct) base perpendicular hypotenuse nothing is fixed (This Answer is Correct) 	Marks :	1
Q 75 :	 45° 90° 80° 60° (This Answer is Correct) base perpendicular hypotenuse nothing is fixed (This Answer is Correct) How long is the diagonal(diameter) of a monitor in inches with height and width - 27in and 36in respectively?	Marks :	1
Q 75 :	 45° 90° 80° 60° (This Answer is Correct) base perpendicular hypotenuse nothing is fixed (This Answer is Correct) How long is the diagonal(diameter) of a monitor in inches with height and width - 27in and 36in respectively? 90 	Marks :	1

Q 77 :	Which of the listed side lengths CAN be sides of a right triangle?		Marks :	1
	1. 7,8,9			
	2. 6,7,8			
	3 . 5,6,7			
	4. 3,4,5	(This Answer is Correct)		
Q 78 :	A triangle whose sides are 15cm, 36cm, and 39cm is		Marks :	1
	1 . right angled	(This Answer is Correct)		
	2 . equilateral			
	3. isosceles			
	4 . scalene triangle			
Q 79 :	$(x^2 + 1/x^2)(x + 1/x)(x - 1/x)$		Marks :	1
	1 . x^4 + 1/x^4			
	2 • x^4-1/x^4	(This Answer is Correct)		
	3 . x^4 -2 +1/x^4	_		
	4 . x^4+2+1/x^4			
Q 80 :	In the evening, the shadow of an object is very long due to the low position of the Sun. A 20m high lamp post makes a 99m long shadow. What is the distance from the top of the pole to the top of its shadow in metre?		Marks :	1
	1. 97			
	2. 101	(This Answer is Correct)		
	3. 79			
	4 . 119			