

ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD



Class	s:9	Subject : MATHEMATICS	Term: FIRST TERM	Max Mar	ks : 60
Q1:	A shirt is sold at l	Rs 360 and there is a loss of 10%. T	he C.P of the shirt is	Marks :	1
	1 . Rs 380				
	2 . Rs 400		(This Answer is Correct)		
	3 . Rs 420				
	4 . Rs 450				
Q 2 :	If the ratio of the	C.P and the S.P be 25 : 26, then find	d the percentage of profit?	Marks :	1
	1 . 4%		(This Answer is Correct)		
	2. 3%				
	3. 1%				
	4. 20%				
Q 3 :	The marked price	e of a thing is Rs 80. If the discount o	on marked price be 10%, then the S.P will be	Marks :	1
	1 . Rs 88				
	2 . Rs 90		<u></u>		
	3 . Rs 72		(This Answer is Correct)		
	4. Rs 70				
Q4:		ne two medians of the triangle ABC.	The straight line through the pt. D parallel to BE of the line segment EF is	Marks :	1
	1 . 4 cm				
	2. 2 cm		(This Answer is Correct)		
	3. 1 cm				
	4 . 2.5 cm				
Q 5 :	In equilateral tria	ngle ABC, the midpoints of BC , CA	and AB are D , E and F respectively. Then the fig	Marks :	1
	1 . rhombus		(This Answer is Correct)		
	2 . square				
	3. trapezium				

4.	parallelogram

	1. square		
	2 . rectangle		
	3 . rhombus		
	4 parallelogram (This Answer is Correct)		
Q7:	The quadrilateral formed by joiniing the midpoints of the sides of a quadrilateral PQRS, taken in order is a rectangle if	Marks :	1
	1 . PQRS is a prallelogram		
	2 . PQRS is a rectangle		
	3. the diagonals of PQRS are perpendicular to each other (This Answer is Correct)		
	4 . the diagonals of PQRS are equal.		
Q8:	The quadrilateral formed by joiniing the midpoints of the sides of a quadrilateral ABCD, taken in order is a rhombus if	Marks :	1
	1 . ABCD is a prallelogram		
	2 . ABCD is a rhombus		
	3 . the diagonals of ABCD are equal. (This Answer is Correct)		
	4 . the diagonals of ABCD are perpendicular to each other		
Q9:	The figure formed by joiniing the midpoints of the sides of a quadrilateral ABCD, taken in order is a square if	Marks :	1
	1 . ABCD is a rhombus		
	2 . the diagonals of ABCD are equal.		
	3 . the diagonals of ABCD are perpendicular to each other		
	4. the diagonals of ABCD are equal and perpendicular to each other (This Answer is Correct)		
10 :	The permiter of a parallelogram is 21 cm. The height of it with respect to the base PS is 4 cm, and the height with respect to SR is 3 cm. Then its area is	Marks :	1
	1 . 12 sq. cm		
	2. 18 sq.cm (This Answer is Correct)		
	3 . 24 sq.cm		

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(This Answer is Correct)

(This Answer is Correct)

1 . ∆s of equal area

	2 . congruent ∆s			
	3 . right ∆s			
	4 . isosceles ∆s			
Q 12 :	A diagonal of a prallelogram divides it into two	of equal areas.	Marks :	1
	1. squares			
	2 . rectangles	_		
	3 . triangles	(This Answer is Correct)		
	4 . none of these			
0.40	If d is the diamter of a circle then its area is		Marks :	1
Q 13 :			warks.	'
	 πd² πd²/2 			
	3 . πd²/4	(This Answer is Correct)		
	4. 2 πd ²	(This / wiener is self-set /		
	4. Z IIU			
Q 14 :	A circle circumscribes a square. The length of side of square circle is	is 5 cm. Then the length of diameter of	Marks :	1
	1 . 5√2 cm	(This Answer is Correct)		
	2 . 10√2 cm			
	3. 5 cm			
	4. 10 cm			
	The numerical values of the sireumference and area of a sireum	le are equal. The length of the side of a	Marks :	4
Q 15 :	The numerical values of the circumference and area of a circ square inscribed in that circle is	le are equal. The length of the side of a	Warks.	1
	1 . √2 units			
	2 . 2 units			
	3. 4 units			
	4 . 2√2 units	(This Answer is Correct)		
Q 16 :	Two copper wires of same length are taken. One is bent to a circle is y sq. units and area of square is x sq. units, then whi		Marks :	1
	1. 2:3			
	2. 7:22			

3. 11:14 4. 11:7

Q 17 :	If the radius of a circle is increased by 1 mtr, its area increases by 8 π is	sq. mtrs. The radius of the circle	Marks :	1
	1 . 1 mtr			
	2 . 2 mtr			
	3 . 3 mtr			
	4 . 3.5 mtr	(This Answer is Correct)		
Q 18 :	If the radius of a circle is increased by 10%, then its area increases by	1	Marks :	1
	1. 10%			
	2. 20%			
	3. 21%	(This Answer is Correct)		
	4. 50%			
Q 19 :	If the length of a diagonal of a quadrilateral is 10 cm and lengths of the opposite vertices are 4 cm and 6 cm, then area of quadrilateral is	e perpendiculars on it from	Marks :	1
	1 . 100 cm ²			
	2 . 200 cm ²			
	3 . 50 cm ²	(This Answer is Correct)		
	4 . none of these			
Q 20 :	If a book is purchased at Rs 25 and sold at Rs 20, then find the perce	ntage of loss.	Marks :	1
	1. 10%			
	2. 15%			
	3. 20%	(This Answer is Correct)		
	4. 25%			
Q 21 :	The S.P of a book is Rs 40 after allowing a discount of 20 %. Find the	marked price.	Marks :	1
	1. Rs 40			
	2 . Rs 55			
	3 . Rs 30			
	4 . Rs 50	(This Answer is Correct)		
Q 22 :	If the rate of loss is 20%, then the ratio of C.P and the S.P is		Marks :	1
	1. 5:4	(This Answer is Correct)		
	2.3:2	_		
	3.4:5			

4. 5:3

Q 23 :	The ratio of the S.P and loss of a thing is 4 : 1. Then the loss % is	Marks :	1
	1. 25%		
	2. 22%		
	3. 5%		
	4. 20% (This Answer is Correct)		
Q 24 :	The amount of profit on C.P of Rs 100 is called the percent	Marks :	1
	1. Loss		
	2 . Loss %		
	3 . Profit (This Answer is Correct)		
	4. Profit %		
Q 25 :	The extra expenses for an article after purchasing should also be calculated as	Marks :	1
	1. Profit		
	2. Loss		
	3. S.P		
	4. C.P (This Answer is Correct)		
Q 26 :	The join of midpoints of any two sides of a triangle is parallel to the third side and the third side.	Marks :	1
	1. twice		
	2. half (This Answer is Correct)		
	3. double		
	4. equal		
Q 27 :	In Δ ABC, AB = 3cm, BC = 4cm and CA = 5cm. If D and E are the midpoiints of AB and BC respectively then the length of DE is	Marks :	1
	1 . 1.5 cm		
	2. 2 cm		
	3 . 2.5 cm (This Answer is Correct)		
	4 . 3.5 cm		
Q 28 :	In the right angled \triangle ABC, /B = 90°, and if base BC = 15cm, hypotenuse AC = 17 cm, then area of the triangle is	Marks :	1
	1 . 60 sq. mtrs (This Answer is Correct)		

	2. 40 sq. mtrs			
	3 . 120 sq. mtrs			
	4 . 30 sq. mtrs			
Q 29 :	Between the same base and same parallels, the area of the triangle will beparallelogram.	of the area of the	Marks :	1
	1. thrice			
	2. double			
	3. equal			
	4 half (This An	swer is Correct)		
Q 30 :	Between the same base and same parallels, the area of a square and the area of a	rhombus are	Marks :	1
	1. triple			
	2. double			
	3. equal (This An	swer is Correct)		
	4. half			
Q 31 :	Two parallelograms are on equal bases and between the same parallels. The ratio	of their areas is	Marks :	1
	1. 1:2			
	2. 1:1 (This An	swer is Correct)		
	3. 2:1			
	4.3:1			
Q 32 :	If a triangle and a parallelogram are on same base and between the same parallels area of the triangle to the area of parlallelogram is	, then the ratio of	Marks :	1
	1. 1:3			
	2. 1:2 (This An	swer is Correct)		
	3. 3:1			
	4. 1:4			
Q 33 :	If two figures are congruent then the areas enclosed by these figures are		Marks :	1
	1. unequal			
	2. equal (This An	swer is Correct)		
	3 . more than the other			
	4 . less than the other			

Q 34:	A circular ring is 5 cm wide. The difference of outer and inner radius is	Marks:	1
	1.5 cm (This Answer is Correct)		
	2 . 2.5 cm		
	3 . 10 cm		
	4 . none of these		
Q 35 :	Perimeter of semicircle is 36 cm. What is the length of diameter?	Marks :	1
	1 . 12 cm		
	2. 14 cm (This Answer is Correct)		
	3 . 20 cm		
	4 . 28 cm		
Q 36 :	If the difference between the circumference and diameter of a circle is 60 units , then the radius of the circle is	Marks :	1
	1 . 7 units		
	2. 14 units (This Answer is Correct)		
	3 . 28 units		
	4 . 3.5 units		
Q 37 :	An arc of a circle of radius 21 cm produces an angle 60°, at the centre. The area of the sector formed by the two radii adjacent to the angle and the arc is	Marks :	1
	1 . 228 sq.cm		
	2 . 230 sq.cm		
	3. 231 sq.cm (This Answer is Correct)		
	4 . 232 sq.cm		
Q 38 :	The circumference of a circle is 22 cm. The length of the diagnonal of a square circumscribing the circle is	Marks:	1
	1. 7 cm		
	2 . 14 cm		
	3. 7√2 cm (This Answer is Correct)		
	4 . 14√2 cm		
Q 39 :	The radius of a circle is r units. Area of the second circle is twice the area of the first circle. Radius of the second circle is	Marks:	1
	1. 2 r units		
	2 . √2 r units (This Answer is Correct)		
	3 . r2 units		

4 . 4 r units

Q 40 :	The ratio of perimeter and diamter of a semi circle is	Marks :	1
	1. π:1		
	2. π:2		
	3. (π + 1):1		
	4. (π + 2): 2 (This Answer is Correct)		
Q 41 :	If the circumference of a circular park is 44 mtrs., then its area will be	Marks :	1
	1 . 154 sq.m (This Answer is Correct)		
	2 . 126 sq.m		
	3 . 145 sq.m		
	4 . 176 sq.m		
Q 42 :	Area of a triangle is 30 cm ² . If its base is 10 cm, the its height is	Marks :	1
	1 . 5 cm		
	2.6 cm (This Answer is Correct)		
	3. 7 cm		
	4.8cm		
Q 43 :	If the perimeter of a square is 80 cm, then its area is	Marks :	1
	1 . 800 cm ²		
	2 . 600 cm ²		
	3 • 400 cm ² (This Answer is Correct)		
	4 . 200 cm ²		
Q 44 :	Area of a parallelogram is 48 cm². If its height is 6 cm, then its base is	Marks :	1
	1 . 8 cm (This Answer is Correct)		
	2 . 4 cm		
	3. 16 cm		
	4 . none of these		
Q 45 :	If the area of a trapezium is 64 cm ² , and the distance between parallel sides is 8 cm, then sum of its parallel sides is	Marks:	1
	1. 8 cm		

2. 4 cm

	3. 32 CIII			
	4 . 16 cm	(This Answer is Correct)		
Q 46 :	Area of a rhombus whose diagonals are 8 cm and 6 cm is		Marks :	1
	1 . 48 cm ²			
	2 . 24 cm ²	(This Answer is Correct)		
	3 . 12 cm ²	_		
	4 . 96 cm ²			
Q 47 :	If the lengths of diagonals of a rhombus is doubled, then area of rh	nombus will be	Marks :	1
	1. doubled			
	2. tripled			
	3 . four times	(This Answer is Correct)		
	4 . remains same			
Q 48 :	Area of rhombus is 90 cm². If the length of one diagonal is 10 cm, is	then the length of the other diagonal	Marks :	1
	1 . 18 cm	(This Answer is Correct)		
	2. 9 cm	_		
	3 . 36 cm			
	4 . 4.5 cm			
Q 49 :	If the length of each side of an equilateral triangle be 4 cm, then w medians?	hat is the length of each of its	Marks :	1
	1. 5 cm			
	2. 6 cm			
	3 . 2√2 cm			
	4 . 2√3 cm	(This Answer is Correct)		
Q 50 :	The perimeter of a rectangle is 40 mtrs and its length is 12 mtrs. F	ind its breadth.	Marks :	1
	1. 10 m			
	2 .8m	(This Answer is Correct)		
	3.6m			

	1. 5			
	2. 6			
	3. 2			
	4. 19	(This Answer is Correct)		
Q 52 :	In the class interval 35 to 46, the	lower limit is	Marks :	1
	1. 11			
	2. 40			
	3 . 35	(This Answer is Correct)		
	4. 46			
Q 53 :	The class mark of class interval 2	22 to 29 is	Marks :	1
	1 . 25.5	(This Answer is Correct)		
	2. 22	_		
	3. 29			
	4 . 27.5			
Q 54 :	tells us how many ti	imes does a particular data appear in a given set of data	Marks :	1
4	1. range			
	2 . class mark			
	3. frequency	(This Answer is Correct)		
	4 . class size			
Q 55 :	If a dozen of oranges is purchase or loss percentage of the seller?	ed at Rs 75 and each pair is sold at Rs 10, then what will be the profit	Marks :	1
	1 . 20% profit			
	2 . 20% loss	(This Answer is Correct)		
	3 . 25% profit	_		
	4 . 25% loss			
Q 56 :	In the trapezium ABCD, AB II CD and F resp, then the length of EF	o and AB = 7cm and DC = 5 cm. The midpoints of AD and BC are E	Marks :	1
	1. 5 cm			
	2 .6cm	(This Answer is Correct)		
	3.7 cm			
	4 . 12 cm			

	In triangle ABC, D, E and F are the midpoints of the sides BC, CA and AB. If the triangle ABC is 18 cm, then the perimeter of the triangle DEF is	e perimeter of the	Marks :	
	1 . 4.5 cm			
	2.8cm			
	3.9 cm (This	Answer is Correct)		
	4 . 10 cm			
Q 58 :	: ABCD is a trapezium with parallel sides AB = a cm, and DC = b cm. E and F are parallel sides. The ratio of area of ABFE and area of EFCD is	e midpoints of the non	Marks :	1
	1. a:b			
	2 • (3a+b) : (a+3b)	s Answer is Correct)		
	3 . (a+3b): (3a+b)			
Q 59 :	intersect at O, then which of the following statements is not true?	e trapezium ABCD	Marks :	1
Q 59 :	 In a trapezium ABCD, AB II DC and AB ≠ DC. If the diagonals AC and BD of the intersect at O, then which of the following statements is not true? 1. area of Δ ABC = area of Δ ABD 2. area of Δ ACD = area of Δ BCD 	e trapezium ABCD	Marks :	1
Q 59 :	 In a trapezium ABCD, AB II DC and AB ≠ DC. If the diagonals AC and BD of the intersect at O, then which of the following statements is not true? 1. area of Δ ABC = area of Δ ABD 2. area of Δ ACD = area of Δ BCD 3. area of Δ OAB = area of Δ OCD 4. area of Δ OAD = area of Δ OBC 	s Answer is Correct)	Marks :	1
	 In a trapezium ABCD, AB II DC and AB ≠ DC. If the diagonals AC and BD of the intersect at O, then which of the following statements is not true? 1. area of Δ ABC = area of Δ ABD 2. area of Δ ACD = area of Δ BCD 3. area of Δ OAB = area of Δ OCD 4. area of Δ OAD = area of Δ OBC In an iron ring there is 66 sq. cm ironplate. If the outer diameter of the ring is 22 	s Answer is Correct)		
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