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\mathbf{C}	ass		8
v.	labb		.0

	 			1.54	
Register		1.000	Act parts	110	
			1000	4	2.6
Number		100	180 1	1000	

	COMMON H Allowed: 2.30 Hour						<u> </u>	-
22. 10			MATHE				[Max.	Marks: 100
ſ	Choose the correct	t Answer.	VouTube/ A	RT - I kwa A	Academy			
1.	The number which is	s subtracte	d from -6/44 to	net 8/á i	e			10x1=10
	a) -34 99	h	-142	901 /91		72 K 1889	-34	
			<u>-142</u> 99	c)	142 99	d)	99	
2.	If $\frac{10^x}{10^{-3}} = 10^9$, then x	is				nagratativ	911 10 X 14	E-sept to the second
	a) 4	b)	_					
3.	The area of square i	is 36x ⁴ v². th	5 en its side is	c)	6	d)	7	
	a) 6x ⁴ y ²	, p)	8x2v2	c)	6x²y	41	Gv2.	
4.	Sum of a number an	d its half is	45 then the nu	mber is		d)	-6x²y	
_ *	a) 10	(b)	20	c)	30	d)	22	W SAME
5.	15% of 25% of 1000		-		autovi a sili (7		A CONTRACTOR
6.	a) 375	_b)	400	c)	425	d)	475	I state of the same
0.	A Man buys an article Price must he sell if	e for ₹150	and makes ove	rhead e	xpenses which	are 12%	6 of the cost p	rice. At what
	Price must he sell it a) ₹180	to guill 07	0	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				
7.		D)	₹168	c)	₹176.40	(b)	₹88.20	
	Two similar triangles a) acute	will always	obtuse					
8.	Two numbers are sa	aid to be Co	nrime number	C)	right	d)	Matching	
	a) 2	b)	3	c)	HCF IS			
9.	The point of concurr	rence of the	three angle bi	sectors	of a triangle is o	d)		
	a) circumcentre	D)	centroid	c)	orthocentre	d)	incentre	
10.	√48 is approximately	equal to				u)	incentre	
	a) 5	b)	6	(c)	7	d)	8	
11.	Fill in the Blanks.			P. 6				5x1=5
<u>11</u> .	The longest chord of							
13.	The value of y in the x-axis and y-axis int	equation 2	X+15=25			reco Z		
14.	The rational number	doe	s not have a red	riprocal				
15.	The centroid of a tria	angle divide	es each median	s in the	ratio	2 5 4 24		
111.	Say true of false.				Company of		ealth of the	
16.	The cube of 0.0012							5x1=5
17.	Using the power rule			7				
18.	2+x=19 is a linear E							
19.	8, 15, 17 is a Pytha		let.					
IV.	HCF of 20 and 15 is Match the following							
21.	a ^m X a ⁿ	19.	(a+b) (a-b)					4x1=4
22.	Circumferance of cir	rle -	x = 4					
23.	a ² -b ²		2πΓ		nincially till	and the same	Lating Day	Family 1921
24.	20=6x-4		a ^{m+n}					
				RT - II		Trans.		Lancater. A. e. S
٧.	Answer any 10 of	the follow		11/11-1/19	1 2:11	1,400	10,000 \$ 1-25;	10x2=20
25.	Subtract: 9/17 from	n - <u>12</u> 17					friedrich in der State (1965) Gebeure	1022-20
26.	Divide: $\frac{7}{-8}$ by $\frac{-3}{4}$			9.7.42		10 AS		345 L
27.	Is 108 a prefect squ	are numbe				7	K. O. B. C. S. C.	a filipation of the st
28.	Simplify: $(-3)^4 \times \left(\frac{5}{3}\right)^4$	1						(9/1/Mat/1

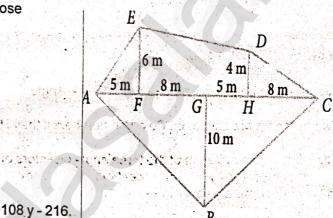
TPR/8/J/Mat/1

- A spinner of radius 7.5cm is divided into 6 equal sectors. Find the area of each of the sectors.
- Find the volume of cuboid whose dimensions are (x+3), (x+5), and x+2. 30.
- 31. Solve: 2x+5=9.
- When a number is decreased by 25% it becomes 120. Find the number. 32.
- Find the compound Interest on ₹3200 at 2.5% p.a. for 2 years, compounded annually. 33.
- If 48 men Working 7 hours a day can do a work in 24 days, then how many days will 28 men working 8 34. hours a day can complete the same work.
- Shanthi has 5 Chudithar sets and 4 Frocks. In how many possible ways can she wear either a Chudithar <u>35</u>. or a frock.
- Using repeated subtraction method find the HCF of 42 and 70. 36.

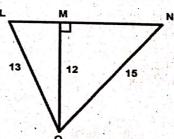
Answer any 8 of the following questions. III.

8x5=40

- 37. Arrange the following rational numbers in ascending and decending order.
- 38. Find the cube root of $24 \times 36 \times 80 \times 25$.
- 39. Find x so that $(-7)^{x+2} \times (-7)^5 = (-7)^{10}$.
- Find the area of an irregular polygon field whose 40. measures are given in the figure.



- Factorise the following expression: y3-18y2+108 y 216. 41.
- At present, Thenmozhi's age is 5 years more than that of Murali's age. Five years ago the ratio of 42. Thenmozhi's age to Murali's age was 3:2. Find their present ages.
- The population of a town is increasing at the rate of 6% p.a. It was 238765 in the year 2018. Find the 43. population in the year 2016 and 2020.
- A and B can do a work in 12 hours, B and C can do it 3 hours where as A and C can do it in 6 hours. How 44. long B along take to do the same work.
- 45. Find LM, MN, LN and also the are of ΔLON. L



Find the HCF of 320, 120 and 195 by using Repeated division method. 46.

PART - IV

VII. Answer the 2 of the following.

2x8=16

- Construct a quadrilateral with the given measurement and also find its Area. 47. ABCD , AB = 5cm, BC = 4.5cm, CD = 3.8cm, DA = 4.4 cm and AC = 6.2cm.
 - Construct a Parellelogram BIRD with BI = 6.5cm, IR = 5cm, ∠BIR = 70°. Also find its Area. b)
- If the points P(5, 3), Q(-3, 3), R(-3, -4) and S form a rectangle, then find the coordinate of 'S' 48. a) (OR)
 - b) Draw the graph of y = 5x.

TPR/8/J/Mat/2