Tsi8N	ww	w.Padasalai.Net	www.Trb Tnpsc.Com						
	-	Con	nmon First Mid Term	Test - 2024					
				0					
Standard 8 MATHS Marks: 50									
Time:	1	30 Hrs.		Marks. 50					
Part - A									
6×1=6									
1. 0	L. Choose the best answers: $\frac{112}{15}$								
	1) The sum of the digits of the denominator in the simplest form of $\frac{112}{528}$ is								
					1.0 Ma				
		a) 4	b) 5	c) 6	d) 7				
3	2)	The square of 43 e	nds with the digit	· ·					
	- /	a) 9	b) 6	c) 4	d) 3				
3	3)								
	,	(1)2	$(-1)^2$ $(1)^4$	$(-1)^2$	$(1)^2 - 16^{-1}$				
		a) $\frac{-1}{4} = 4^{-2}$	b) $\left(\frac{-1}{4}\right)^2 = \left(\frac{1}{2}\right)^4$	c) $\frac{1}{4} = 16$	d) $-(\frac{1}{4}) - 10$				
				•					
	4)	The multiplicative inverse of the rational number $\frac{a}{b}$ is							
	.,								
		a) $\frac{-a}{b}$	b) $\frac{-b}{a}$	c) $\frac{b}{a}$	d) $\frac{-a}{-b}$				
		· D	u		-0				
	5)		cle of diameter 24 cr	n is	d) 18 cm				
		a) 6 cm	b) 12 cm	c) 15 cm	u) 10 cm				
	6)	The circumference	g of a circle is	• 0	2				
		a) 2πr	b) π ²	c) πr	d) $\frac{\pi r^2}{2}$				
		6)210			2				
II. F	T. Fill in the blanks:								
	7)	The value of $\frac{-3}{5}$	$\frac{(-3)}{6} \times \left(\frac{18}{-9}\right) \text{ is } $						
	<i>'</i>)	The volue of 6	-9						
	8)	The cube root of 5	is: $f\left(\frac{-3}{6}\right) \times \left(\frac{18}{-9}\right)$ is Not of 540×50 is In point of more than two edges in a polyhedron is called as						
	9)	The meeting point of more than two edges in a polynedron is called as							
	0.	The longest chard	of a circle is						
	10) The longest chord of a circle is 5×1=5								
			ue or raise.						
1	1)	1) $\frac{-4}{5}$ lies to the left of $\frac{-3}{4}$.							
			per of zeros in the square of 91000 is 9.						
1	13) The perimeter of a quadrant of a circle is $\left(\frac{\pi}{2}+2\right)r$ units.								
1	14) If a net of a 3-D shape has six plane squares, then it is called cube.								
			o rational numbers l						
			Part - B		Cost is an				
					E				

IV. Answer ANY 5 questions:

16) Subtract $\frac{-8}{44}$ from $\frac{-17}{11}$.

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5×2=10

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- 17) The product of two rational numbers is $\frac{-2}{3}$. If one number is $\frac{-2}{7}$, then find the other
- Find the square root of the number 4761 by prime factorisation method.
- 19) Find the cube root of 27000
- 20) Find the value of $(-2)^5 \times (-2)^{-3}$.
- Find the area of the sector whose length of the arc is 48m and radius 10m.
- 22) A spinner of radius 7.5 cm is divided into 6 equal sectors. Find the area of each of the sectors.

Part - C

Answer ANY FOUR questions: ν.

- 23) Simplify: $\left(\frac{4}{3} \left(\frac{-3}{2}\right)\right) + \left(\frac{-5}{3} + \frac{30}{12}\right) + \left(\frac{-12}{9} \times \frac{-27}{16}\right)$
- 24) Find the square root of 17956 by long division method

25) Solve for x:
$$\frac{5^5 \times 5^{-4} \times 5^x}{5^{12}} = 5^{-5}$$

26) If $\frac{1}{4}$ of a ragi adai weighs 120 grams, what will be the weight of $\frac{2}{3}$ of the same ragi adai?

(11)

G

111

8 m

(N)

- 27) Find the area of an irregular polygon field whose measures are as given in the figure.
- 28) Verify Euler's formula for the table given below:

S.No	Faces	Vertices	Edges
(i)	4	4	6
(ii)	10	6	12
(iii)	12	20	30
(iv)	20	13	30
(v)	32	60	90

Part - D

VI. Answer ANY ONE of the following Geometry:

29) a) Construct a quadrilateral 'DEAR' with, DE = 6 cm, EA = 5 cm, AR = 5.5 cm, RD = 5.2 cm and DA = 10 cm. Also find its area.

(OR)

b) Construct a Trapezium CITY with, CI || YT, CI = 7 cm, IT = 5.5 cm. TY = 4 cm and YC = 6 cm.

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×5=20

1×5=5