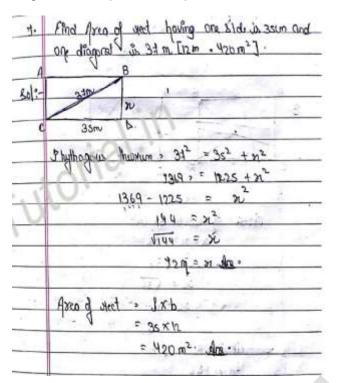
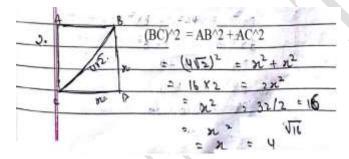
Coaching for Mathematics and Scie

7th Mensuration Test Paper – 01

1. Find area of rectangle haying one side 35m and one diagonal is 37m [12m, 420m²]



2. Find area of square having diagonal $4\sqrt{2}$ m?



Area of square = $(side)^2 = 4^2 = 16 m^2$

3. Find the area of square that is obtained by joining midpoint of square ABCD of area 36cm².

-4-	AP = PB = 3cm.
	In 1 POB
-	Pg2 = PB2 + Bg2
	302 : 32 +32
*	PO2 = 9 +9
3 ¹² 31 1	b0, = 1 18 m
515	PQ2 = 18 cm . De

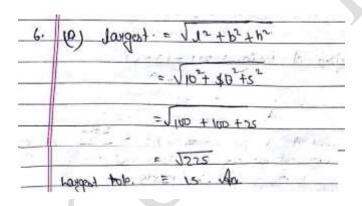
4. A room have dimensions $9m \times 8m \times 6.5m$. It has one door of dimensions $(2m \times 1.5m)$ and four windows each (1.5m x 1m). Find the cost of white washing at Rs. 25 per m² [Rs. 5300]

ц.	Axeo of 4 wall = 2(1+6) xh
V	= 5(d+8) X P.2
1	= 34 × 6.5
	= 221m.
	and the second
	Area of I door = 2m x1.5m
	2 3.0m²
	the state of the s
-	Aread 4 window, 4(1)
-	= 4X1X1.2
-	= 6.0 m ²
-	- de-1/ = + de 0
-	Area of kning = 221 - (3+6)
	= 221-9
-	= 212
-	the state of the s
	Tory of Jenning = 32 30 x 515 = 2010. (Ws

The sides of rectangle are in ratio 4 : 3.If its area is
1728m' Find the cost of fencing at Rs. 30 per m² [Rs.
5040]

2.	leh the voto no
	Чж X 3х 2 1428
	152 = 1458
	×2 2 1728/12
	×2 ≈ 144
	N = VIYY
-	3/8/2 11-1-7-1 1 to 1
	1. 4x 12,487 - 8 2 1293,36
	P = 2(1+b)
	P = 2 (48+36)
-	P 7 2×84
56	P = 168
	CON = 168 x 30 3 5046

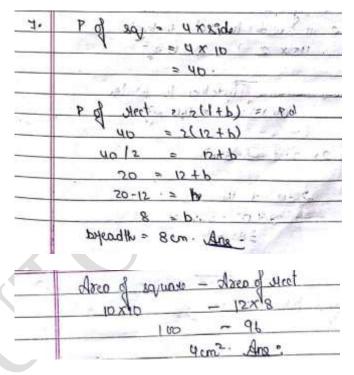
6. (a) Find the largest pole placed in a room 10mx10mx5m?



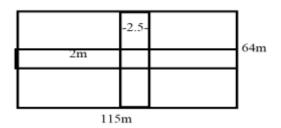
(b) If Area of square of is $\frac{1}{2}$ hectare. Find its diagonal?

p).	1 x heday, Aseo of say
	1 x 10000 = side = xxd2
	10000 5 = q5
	100 = d Am.

7. A wire is in form of square side 10cm. If wire is rebent into a rectangle of length 12cm find its breadth.
Which figure has more area and by how much [8cm, 4cm²]



8.A rectangular park is 115m by 64m has two cross road at right angle one 2m wide parallel to length and other 2.5 m wide parallel to breadth. Find cost of gravelling cross road of at 60 per m².[Rs.23100]

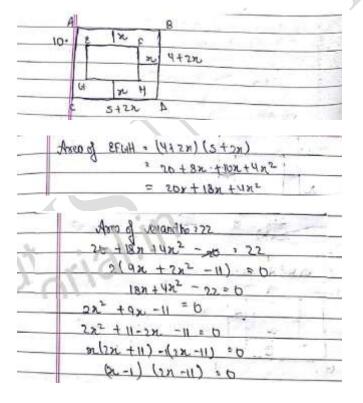


Area of road Parallel to length = $115 \times 2 = 230 \text{ m}2$ Area of road Parallel to breadth = $64 \times 2.5 = 160 \text{ m}2$ Area Of cross section of two road = $2 \times 2.5 = 5\text{m}2$ Area of cross roads = 230 + 160 - 5 = 390 - 5 = 385Cost of gravelling cross road of at 60 per m² = 385×60 = Rs.23100

 A rectangle lawn is 43m by 27m has inside path of width 1m parallel to length and 1.5 m parallel to breadth. [161m²]

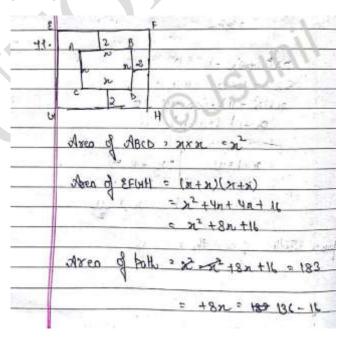
	Land to the second to have
۹.	3.5m 3.5m 10.5m 10.5m 10.5m
	10:
	2 dru
1	all a fall to that ap
4	u3m,
	d. soot
	Axen towalled to the length = 43 xt . 43 m2
	d stool
	Area toward to the breath . 24 x1-5 = 40-502
	1 x - 2 M of the of thought of
	Area of case section = 1x1.5 = 1.5 m2
	V 44 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Azen d'em	4 god (43 + 40) - 7.5
14	
	83.5-1.5 = 87.m2 Aca.
	1 1 21 100 - 1-50 1 2
Honce +	Area of cross stoad = 82 m2. Ars.
9	Part of the second

10. A room 5m long and 4m wide is surrounded by a verandah. If the verandah occupies an area of 22m².find the Width of veranda? [1 m]



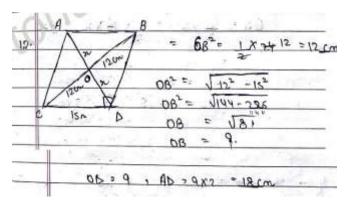
	2x2 + 11-2x -11 = 0	
	20 (11- xs) - (11+ xs)x	
	Qu-1) (2n-11) =0	
_	to the same out he was	
-	x-1=0 2x +11 00	
	X 3 4 2 2 2 2 2 4 5 6 6 6	
	xx y	
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- Iom	Well of volandhe > 1. A	-

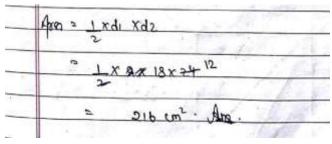
11. A square lawn has 2m wide path surrounding it. If the area of path is 136m². Find the area of lawn? [225m²]



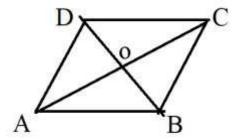
	820 = 120	- : N
1.	n = 120/8	
	x = 15	
	Axeo of Jam : 15x15 = 225 m2.	A.

12. Find area of rhombus one side 15 cm and one diagonal 24cm.





13. If area of rhombus is 96m² and one of its diagonal is 16cm. find its perimeter?



AD= d1 = 16cm => OA =OC = 8cm

Area of rhombus = $\frac{1}{2} d1xd2 => 96 = \frac{1}{2} x 16 x d2$

$$\Rightarrow d2 = \frac{96 \times 2}{16} = 12cm$$

$$Rt. \Delta AOB$$
, $AB^2 = OA^2 + OB^2 = 8^2 + 6^2 = 100$
=> $AB = \sqrt{100} = 10 \ cm$

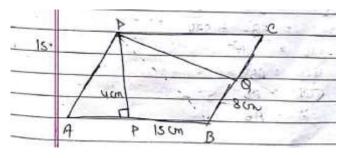
Perimeter of Rhombus = $4 \times \text{side} = 4 \times 10 = 40 \text{cm}$

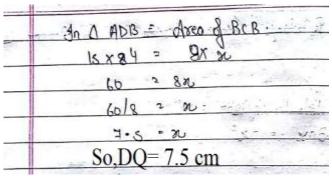
14. The area of a rhombus is equal to area of a triangle whose base and corresponding height are24.8cm and 16.5cm respectively. If one of the diagonal of rhombus is 22 cm find other diagonal?

	Asso of shambus = Asso of triangle
_	1xd1 rd2 = 1xbxh
===	1x22/xd2 = 1x24-8x16.5
	11xd2 = 12.4x 16.5
- 7	4
	95 = 12+4 X18/2 123
	H X ISET
	5
	dz = 93/5
	dz = 18-6
	Carry State And
enter	The other diagral - 12-Ken Are.
	A Part of the second of

Hense	pose	of to	spolston x	am.	2×16	1 32	Cm
	Heigh	1 8 "	- " 0		IL cm	A	_

15. The adjacent side of parallelogram are 15cm and 8 cm. If distance between the longer sides is 4 cm. Find the distance between shorter sides?

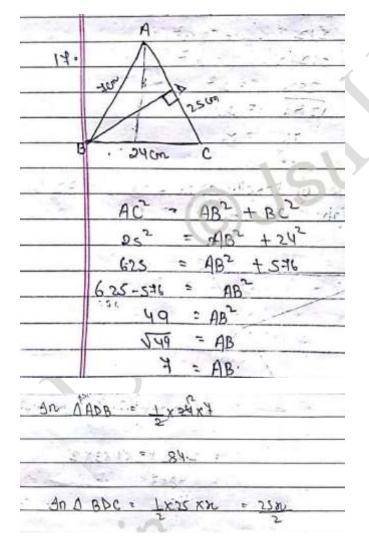




16. The base of parallelogram is twice its height having area 512cm². Find base and height?

	ide the height = x
	obser of hundredgram - base xheight
-	512 = M X 2N
18	S12 = 2 m2 .
1	512/2 = N2
	256 EX2
	1231 EX
	16 = M
н	ence. boxe of towallelogopon - 2× 16 + 32 cm

17. Find area of triangle ABC, BC = 24cm, AC =25cm if BD \perp AC find BD [6.72]



An AADB	2 X +4 X +			
8.8634	= _84=		a II	
An A BAC	* LXXXXX	t	2500	

18. Find the area and height on longest side of triangle sides 42cm, 34cm and 20cm.

89de = 11 +b+c = 42+34+20=
2 2
80 = de de = U8
it to in our and the
(2-2) (d-2) (0-2) V . asoft
and the second
= 1 48(48-42)(48-34)(48-20)
30
J 48×6× 14× 28

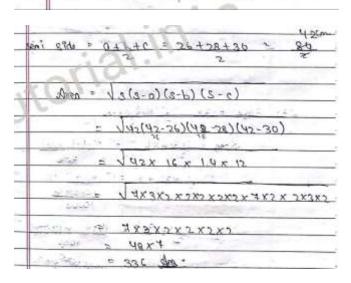
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	E UZKZNZXAY ZXZXZXAX AXIXI
	* 1
	= 2 X 2 X 2 X 4 X 3 X 2
	= 4887
_	
	- 33.6
2	
١	low ayer => 1 base x height
240	- 336 = TX45Xb
	28t x 2
	11 HE 24
	- 4-3 m 3 d 3 self
	7L (C.)

19. Find area of triangle whose sides are in 13:14:15 and perimeter 84cm

Herry Height of 1 - 16

19,	P & A . Sun of all side
	84 = 13 n +14 n +152
	84 = \$220
1	- CO 84/42 0 = 0- XULU / -
	2 = 20

>1	1684 ME	= 13 KS .	26
	2 2 3id	7 14 X 2 =	28
	Bid big	= 15×2	30



20. The height of an equilateral triangle is $\sqrt{6}$. Find its area.

The height of an equilateral triangle = $\sqrt{6}$

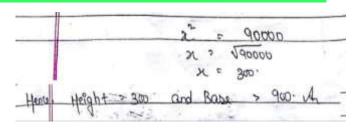
$$=\frac{\sqrt{3}}{2} a = \sqrt{6} \implies a = \frac{\sqrt{6} \times 2}{\sqrt{3}} = 2\sqrt{2}$$

Area of equilateral triangle= $\frac{\sqrt{3}}{4} a^2 = \frac{\sqrt{3}}{4} (2\sqrt{2})^2$

$$=\frac{\sqrt{3}}{4} \times 8 = 2\sqrt{3}$$

21. The base of a triangular field is three times its height. If the cost of cultivating the field at Rs 1080 per hectare is Rs 14580, find its base and height.

23.	Boxe = 32 , Height-2
	- Land 2 substantials -
	Area = Lxbxh = Total cost
	Rake .
	08) M . J XXX KX 1
-	7 - 1080 X MD
	10000
	132 5 14580 x 10000
	1089
	2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	2 = 14480 x 1000 x 2
15-	198 ×3
	े प्रस् अस



7th Mensuration Test Paper – 02

1. The area of a rectangular field is 3584 meter square and its length is 64m. A boy runs around the field at the rate of 8 km/h. how tong will he take to go 5 times around it.

Ans: Breadth of rectangular field = $\frac{Area}{length}$

$$=\frac{3584}{64}=56$$

Perimeter of rectangular field = 2(56 + 64)

$$= 2 \times 120 = 240m$$

Distance covered in 5 times running around the field = 240x5= 12000m = 1.2 km, Speed = 8km/h

Time =
$$\frac{Distance}{speed} = \frac{1.2}{8} \times 60 \text{ min} = 9 \text{ min}$$

2. The area of a square is 16200 meter square. Find the length of its diagonal.

2.	you of solvion = Fxq.
	18500 = 7x45
	18200 X5 = gs
	32400 = 42
	132400 = d
	b * 08t
1	and the second second second second
Menca	leight of its diagonal , 180 m. Ans.