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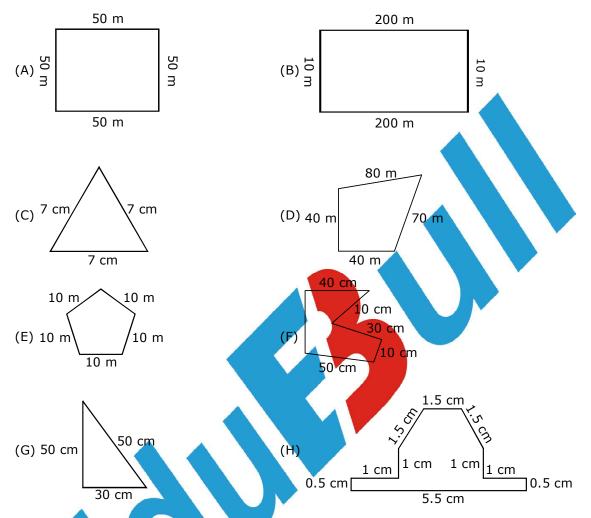
		E	XERCISE	
		o	BJECTIVE TYPE	
Q.1	The perimeter of	regular pentagon of si	de 8 cm is :	
	(A) 32 cm	(B) 40 cm	(C) 48 cm	(D) 56 cm
Q.2	Find the area of so	quare having perimete	er 20 cm.	
	(A) 5 cm ²	(B) 10 cm ²	(C) 20 cm ²	(D) 25 cm ²
Q.3	A regular polygon	having n side perime	ter m unit, then leng	yth of each side of polygon is :
	(A) mn unit	(B)	(C) <mark>n</mark> unit	(D) can't be determine
Q.4	Rectangle having	length I unit and perir	neter p unit then its	breadth is :
	(A) <mark>p</mark> unit	(B) $\frac{p}{2}$ unit	(C) $\frac{p}{2}$ + I unit	(D) $\frac{l}{p}$ unit
Q.5	A rectangular floo of tiles required.	r having dimension 40	m × 30m is paved wi	ith square tiles of side 5 m, find the number
	(A) 24	(B) 48	(C) 96	(D) 120
Q.6	If the area and le	ngth of a rectangular	plot are 440 m ² and	22 m respectively, then find its breadth ?
	(A) 20 m	(B) 10 m	(C) 30 m	(D) 40 m
Q.7		ape of a rectangle of le 3 cm. Find the area of		h 40 m. Out side the lawn there is footpath
	(A) 756 m²	(B) 706 m²	(C) 736 m ²	(D) 726 m ²
Q.8				00 m respectively; within it two roads of 10 red by both the roads.
	(A) 8800 m ²	(B) 8900 m ²	(C) 8860 m ²	(D) 8830 m ²
Q.9	The cost of levelli of fencing it at Rs		.5 per square meter	is Rs. 7000. It is 20 m wide. Find the cost
	(A) Rs. 330	(B) Rs. 340	(C) Rs. 350	(D) Rs. 360
Q.10		-	-	ne is 200 m and its breadth 15m. Find the asures 20 cm by 10 cm
	(A) 15	(B) 150	(C) 1500	(D) 150000

Q.11	-	f two square are 748 of the areas of these		the perimeter of a square whose area is								
	(A) 810 cm	(B) 815 cm	(C) 820 cm	(D) 825 cm								
Q.12			25 m and 20 m. If e	each person requires 200 cubic metres. he hall are :								
	(A) 120	(B) 150	(C) 140	(D) 100								
Q.13	How many cubes	of side 15 cm can be	fitted into a box whic	h measure 1.5 m \times 90 cm \times 75 cm ?								
	(A) 120	(B) 300	(C) 140	(D) 100								
Q.14	The edge of cube	is 20 cm. How many	small cubes of 5 cm e	edge can be formed from this cube ?								
	(A) 4	(B) 32	(C) 64	(D) 100								
Q.15	Length and bread	Ith of a rectangle is x	and y, the its perimet	ter is :								
	(A) xy	(B) x + y	(C) 2(x + y)	(D) 2xy								
Q.16	Perimeter of an e	quilateral triangle of	side x is :									
	(A) x ³	(B) x ²	(C) 3x	(D) 2x								
Q.17	The length and b	readth of rectangle a	re 10 cm and 6 cm res	specitively. Its area will be :								
	(A) 36 cm ²	(B) 60 cm ²	(C) 100 cm ²	(D) 16 cm ²								
Q.18	Area of square of	side 5 cm is :										
	(A) 25 sq cm	(B) 10 sq cm	(C) 20 sq cm	(D) none of these								
Q.19	The cost of floorin	ng <mark>a ro</mark> om a <mark>t Rs.</mark> 25 p	er m² is Rs.625.									
	The area of the floor is :											
	(A) 25 m ²	(B) 15 cm ²	(C) 50 cm ²	(D) 25 cm ²								
Q.20	The length of a re	ectangle having area	340 cm ² and breadth 2	20 cm is :								
	(A) 170 cm	(B) 15 cm	(C) 17 cm	(D) 20 cm								
Q.21	To find the distan	ice around the figure	we find its :									
	(A) area	(B) perimeter	(C) both	(D) none of these								
Q.22	The side of regula	ar pentagon having pe	erimeter 5x units is :									
	(A) 25 units	(B) x units	(C) 5 units	(D) none of these								
Q.23	If the side of the	square field is double	ed, then its area will be	e :								
	(A) four times	(B) doubled	(C) halved	(D) tripled								
Q.24	To calculate lengt	th of rectangle we div	vide its area by its :									
	(A) breadth	(B) length	(C) perimeter	(D) 2								

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SUBJECTIVE TYPE

Q.1 Calcualte the perimeter of the following figures.



- Q.2 A square sheet of paper has a perimeter of 40 cm. What is the length of its side ?
- **Q.3** Anand's garden is 70 m long and 50 m wide and is in the from of a rectangle. If he uses three of barbed wire to fence the garden, what is the total length of the wire used ?
- **Q.4** Find the area of each of the figure drawn on squared paper in given figure. Area of each square is 1 cm².

		(b)	_	 (c)				
-				/	-		~	
++	+++		+	 				
d)		(e)				(T)		

Q.5 The length of a rectangular field is 300 m and its breadth is $\frac{2}{3}$ its length. If a road of width 10 m is built along the inner wall of the field, what is the area of the road ?

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- **Q.6** The area of a square picture is 441 sq. cm. What is the length of its side ?
- Q.7 A marble tile measure 10 cm × 12 cm. How many tiles will be required to cover a wall is size 3 m × 4m?
- Q.8 How many envelope of size 15 cm × 20 cm can be made out of a paper of size 4 m × 6 m ?

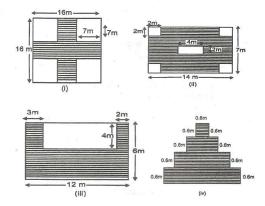


- **Q.9** Five square flower beds each of side 1.2 m are dug on a piece of land 4.8 m long and 4.2 wide. What is the area of the remaining part of the land ?
- **Q.10** The area of rectangular field is 594 square metre. Its breadth is 22 m. Find its perimeter.
- **Q.11** The area of a triangle, whose base and the corresponding altitude are 15 cm and 7 cm, is equal to a right triangle whose one of the sides containing the right angle is 10.5 cm. Find the other side of this triangle.
- **Q.12** Calculate the area of the quadrilateral ABCD as shown in figure, given that BD = 42 cm, AC = 28 cm, OD = 12 cm and $AC \perp BD$.

Q.13 Find the area of the shaded figure, where $\angle BAP = 90^\circ \& \angle CDP \neq 90^\circ$.



- **Q.14** An open box is made of a thin cardboard (negligible thickness of cardboard). It is 8 cm long, 6 cm wide and 5 cm high. It is without a lid. Find the total surface area of the box.
- Q.15 Three cubes, each having an edge 4 cm, are joined together. Find the surface area of the cuboid thus formed. Is this surface area equal to the sum of the surface areas of the three separate cubes ?
- **Q.16** Calculate the area of the shaded region in each of the following figures.



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ANSWER KEY

								-	
)B1F								9.	12.96 sq m
1.			D	3.	В	4.	В		
5.									
).	D	10.	D	11.		12.	D		
L 3 .	В	14.	С		С	16.	С		
17.	В	B 2. D 3. B 4. B 10. 98m B 6. A 7. A 8. B 11. 10cm D 10. D 11. C 12. D 13. 625cm ² B 18. A 19. A 20. C 14. 188cm ² B 22. B 23. A 24. A 15. 224cm ² N							
21.	В				А		А	15.	224cm ² No, the surface area of cuboid and
									cube are not equal
SUBJ	ECTIV	Е:						16.	(i) 60m ² (ii) 74cm ² (iii) 44m ² (iv) 5.76m ²
1.	(a) 22	20m (l	b) 420n	n (c) 21	.cm (d	d) 230cm	า		
	(e) 5	0cm (1	f) 160c	m (g) 1	30cm				
2.	10cm	1							
3.	720m	1							
4.	(a) 9	cm² (b) 5cm	² (c) 4c	:m² (o	d) 4cm ²			
	(e) 6	cm² (1	f) 5cm ²	2					
5.									
6.									
7.									
8.	No.o	fenvel	opes =	800					
					J				

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		E	(ERCISE-2	
1.	-	n of the greatest rod t Niven that $\sqrt{2}$ = 1.42 .	-	oom whose length is 10 m, breadth 8 m
	(A) 13.2	(B) 14.2	(C) 15.2	(C) 16.2
2.	Two cubes, each o	of edge 12 cm are joir	ned end to end. Find the	e surface area of resulting cuboid.
	(A) 1450 cm ² .	(B) 1440 cm ²	(C) 1420 cm ²	(C) 1410 cm ²
3.	Three cubes whos surface area of th		m and 5 cm respectively	are melted to fo a single cube. Find the
	(A) 210 cm ²	(A) 213 cm ²	(C) 224 cm ²	(D) 216 cm ²
4.		_	in the ratio 3 : 4 : 5 are smallest of the three give	e melted down in <mark>to a s</mark> ingle cube whose ven cube <mark>s</mark> .
	(A) 6 cm	(B) 7 cm	(C) 8 cm	(D) 9 cm
5.			ular cylinder is reduced d cylinder to that of the	by 50%, keeping the same height, what original.
	(A) 1 : 9	(B) 1 : 8	(C) 1 : 4	(D) 1:2
6.	The radii of the tw ratio of their volur			eights are in the ratio 5 : 3. What is the
	(A) 20 : 27	(B) 18 : 27	(C) 15 : 21	(D) 11 : 15
7.	The volume of the Find its thickness.		pe is 748 cm ³ . Its length	is 14 cm and its external radius is 9 cm.
	(A) 4	(B) 3	(C) 2	(D) 1
8.		of coins 1.5 cm in dia ght is 8 cm and diam		k to be melted to form a right circular
	(A) 620	(B) 640	(C) 660	(D) 680
9.			2 dm and its diameter o be allowed 2916 dm ³ c	f the base is 54 dm. How many persons of space? ($\pi = 22/7$)
	(A) 11	(B) 10	(C) 9	(D) 8
10.	•	n the form of a cone o nearest to a whole nu	_	t 7 cm melted and cast into a cube. Find
	(A) 5 cm 🔪	(B) 4' cm	(C) 3 cm	(D) 2 cm
11.		e r <mark>atio</mark> 8:5, what is t	cular cone have equal b the ratio of their base to	bases and equal heights. If their curved their heights?
	(A) 3 : 4	(B) 5 : 4	(C) 6 : 7	(D) 9 : 8
12.	solid sphere. Find	es of gold whose radii the radius of the sphe		m respectively are melted into a single
	(A) 6 cm	(B) 7 cm	(C) 8 cm	(D) 9 cm
13.	It needs 50 ml pa picture 100 cm ×		re 50 cm \times 25 cm. How	n much paint is needed to paint a similar
	(A) 100 ml 🛛 🗸	(B) 400 ml	(C) 750 ml	(D) 200 ml
14.	The sides of a rec it at Rs 2.50 P per		e ratio of 4 : 3 and its a	rea is 1452 m ² . Find the cost of fencing
	(A) Rs. 480	(B) Rs. 385	(C) Rs.375	(D) Rs. 365
15.	-	-	-	er the floor of a room 30 m $ imes$ 20 m?
	(A) 1000	(B) 600	(C) 2400	(D) 1200
16.	A room is 15 metr	es long, 4 metres broa	nd and 3 metres high. Fin	d the cost of white washing its four walls

MENSURATION Page # 35 ī at 50 P. per m^2 . (A) Rs. 60 (D) Rs. 52 (B) Rs. 57 (C) Rs.55 **17.** The area of four walls of a room is 120 m^2 and its length is twice the breadth, the height being 4 metres. Find the area of the floor. (C) 75 m² (A) 50 m^2 (B) 60 m^2 (D) 100 m^2 **18.** Find the cost of fencing a circular field at the rate of 50 P. per metre if its area is 13860 m². ($\pi = 22/7$) (B) Rs.540 (C) Rs. 700 (A) Rs. 660 (D) Rs. 800 **19.** The inside circumference of a circular field is 1188 m. A road 7 m wide is constructed on the outside. Find its area. (A) 8070 m² (B) 8270 m² (C) 8370 m² (D) 8470 m^2 The area of two circular fields is in the ratio 16 : 49. If the radius of the latter is 14 m, what is the radius 20. of the former? (A) 32 m (D) 4 m (B) 18 m (C) 8 m The radii of the two circular field is in the ratio 3 : 5. The area of the first field is what percent less than 21. the area of the second? (A) 50% (C) 40% (D) 64% (B) 60% 22. What is the radius of a circular field whose area is equal to the sum of the areas of the three circular fields with radii 4 m, 4.5 m and 6 m respectively? (A) 9 m (B) 10.5 m (C) 10 m (D) 8.5 m 23. If all the sides of a triangle be increased by 200 percent what is the corresponding increase in its area? (B) 400% (C) 600% (A) 300% (D) 800% How much paint is required for painting the outer surface of the water tank $2 \text{ m} \times 4 \text{ m} \times 3 \text{ m}$ if it needs 24. $\frac{1}{6}$ of a litre for every m²? (A) 16 litres (C) 12 litres (B) 15 litres (D) 10 litres 25. The edge of three iron cubes are 6 cm, 8 cm, 10 cm respectively. A new cube was made by melting them. Find the edge of the new cube. (A) 8 (C) 14 (D) 10 **(B)** 12 26. A closed wooden box 44 cm long, 32 cm wide and 28 cm high is made of wood 2.5 cm thick. Find the quantity of wood used. (D) 15205 cm³ (A) 16215 cm³ (B) 15005 cm³ (C) 16205 cm³ 27. The circumference of a circle is 100 cm. What is the side of a square inscribed in the circle? $50\sqrt{2}$ $100\sqrt{2}$ 100 (C) (D) $50\sqrt{2}$ (A) π A wire is in the form of a circle of radius 28 cm. What is the area of the square into which the wire 28. is bent $(\pi = 22/7)$ (B) 1866 cm² (A) 1936 cm² (C) 19.36 cm² (D) none of these **29.** If the length of a rectangle is increased by 50% and its breadth is decreased by 25%, what is the change percent in its area? (A) 12.5% increase (B) 10% increase (C) 25% increase (D) 20% decrease 30. A reservoir is 45 m long and 12 m broad. How many kilo litres of water must be poured into it to raise the water level by 2 metres. [1 cub metric can contain 1 kiloliter] (A) 540 (B) 1280 (C) 1080 (D) 1380 **31.** How many cubes can be cut out of a metre cube? Given that the parameter of the small cube is 48 cm. (A) 7500 (B) 15625 (C) 9261 (D) 17576

32. A water tank whose dimensions are 1.5 m, 0.75 m and 0.48 m is full. Its contents are emptied into

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	another empty tanl	< whose base area is 1	m ² . How much the wa	ter level shall rise?
	(A) 64 m	(B) 54 m	(C) 5.4 cm	(D) 34 cm
33.	A hall is 100 m \times 75 50 m ³ of air are :	$5 \text{ m} \times 22 \text{ m}$, the numb	er of persons, who can	be accommodated in it, each requiring
	(A) 2200	(B) 1100	(C) 2500	(D) 3300
34.	The diagonal of cub	e is 15 m, what is its v	volume?	
	(A) 375 √3 m3	(B) 375 m ³	(C) $125\sqrt{3}$ m ³	(D) 750 $\sqrt{3}$ m ³
35.	A cubic metre of a What is the thickne		nered to from a fine sh	eet so as to cover one hectare of land.
	(A) 1 cm	(B) 0.1 cm	(C) 0.01 cm	(D) 0.001 cm
36.		dius r and height h is fu omes full, what is its he		d into another cylindrical flask of radius
	(A) 3x ² h	(B) $\frac{h}{3x^2}$	(C) $\frac{xh}{3}$	(D) $\frac{3h}{x}$
37.			length of the cloth whi	nd 35 m slant height. The width of the ich shall do the needful.
	(A) 700 m	(B) 1250 m	(C) 776.5 m	(D) 770 m
38.		re, how much paint is	required to paint the la	s required for painting the surface area rger one?
	(A) 729 ml	(B) 750 ml	(C) 216 ml	(D) 810 ml
39.				with twice the area of A is:
	(A) 2 (a + b)	(B) $\sqrt{2}$ (a + b)	(C) a + 2b	(D) 2a + 4b
40.	The length of a rec rectangle is	tangle is 1 cm more th	han its width and its pe	erimeter is 14 cm, then the area of the
	(A) 16 cm ²	(B) 14 cm ²	(C) 12 cm ²	(D) 10 cm ²
41.				then the area is increased by
	(A) 100%	(B) 200%	(D) 300%	(D) 400%
42.	If the length of a re	ctangle is increased by	$r\frac{1}{2}$ rd and the width is r	decreased by $\frac{1}{3}$ rd, then the area of the
	rectangle is decrea		3	3
	(A) 2/3	(B) 1/6	(C) 1/9	(D) 1/8
43.	The length of a giv	en rectangle is increa	sed by 20% and the b	readth is decreased by 20%, then the
	area			
				(D) decreases by 4%
44.	painted inside and	outside and on the flo	or but not on the ceilin	de, 13 m long and 5 m high. It is to be ig, then the total area to be painted is
	(A) 360 m ²	(B) 460 m ²	(C) 490 m ²	(D) 590 m ²
45.	The side of an equil the triangle is :	ateral triangle are (2a	– b) cm, (a + 3b) cm a	and $(2a - 2b + 1)$ then the perimeter of
	(A) 3 cm	(B) 12 cm	(C) 15 cm	(D) 21 cm
46.	In a right triangle v	vith sides x and y, hyp	otenuse z, the altitude	drawn on the hypotenuse is a, then

	(A) xy = a ²	(B) $\frac{1}{x} + \frac{1}{y} = \frac{1}{a}$	(C) $2 + y^2 = 2a^2$	(D) $\frac{1}{x^2} + \frac{1}{y^2} = \frac{1}{a^2}$
47.	If the diagonals of	a rhombus are 24 dm	and 10 dm, then the p	erimeter of the rhombus will be
	(A) 68 dm	(B) 60 dm	(C) 52 dm	(D) 50 dm
48.	If the radius of the	e circle is increased by	100%, then the area	is increased by
	(A) 100%	(B) 200%	(C) 300%	(D) 400%
49.	The side of a squa of the whole figure		cles are constructed o	n each side of the square, then the area
	(A) $(4 + 2\pi)$ cm ²	(B) $(4 + 4\pi)$ cm ²	(C) 4π cm ²	(D) 8π cm ²
50.	The area of a squa (A) r ²	are that can be inscrib (B) 2r ²	ed in a circle of radius (C) 4r ²	r is (D) 1π ²
51.	If the circumferen	ce of a circle is reduce	d by 50%, then the ar	ea will be reduced by
	(A) 50%	(B) 25%	(C) 75%	(D) 12.5%
52.			-	uare inscribed in the circle is
	(A) $\frac{100\sqrt{2}}{\pi}$ cm	(B) $\frac{50\sqrt{2}}{\pi}$ cm	(C) $\frac{100}{\pi}$ cm	(D) 50√2 cm
53.	The area of a circ triangle is (in units			square units. Then the perimeter of the
	(A) 71 √3	(B) 48 √3	(C) 72	(D) 36
54.	The area of the la			circle whose radius r cm is
	(A) 2 r cm ²	(B) r ² cm ²	(C) 2 r ² cm ²	(D) $\frac{1}{4}$ r ² cm ²
55.	A cord in the forn circle, then the ar	n of a square encloses	the area 'S' cm ² . If the second s	he same cord is bent into the form of a
	(A) $\frac{\pi S^2}{4}$	(B) 4πS ²		(D) $\frac{4S}{\pi}$
56.	areas of two sector	ors is		les 120° and 150°, then the ratio of the
	(A) 4 : 5	(B) 5 : 4	(C) 2 : 1	(D) 8 : 7
57.				hen the volume of the cuboid is :
	(A) xy	(B) xyz		(D) ³ √xyz
58.	of the new cube fo	ormed is		nelted to form a new cube, then the edge
	(A) 12 cm	(B) 6 cm	(C) 20 cm	(D) 10 cm
59.	the volume of the	a cuboid are increased, cuboid	decreased and increas	ed by 1%, 3% and 2% respectively, ther
	(A) increases(B) decreases			
	(C) increases or de	creases depending on	original dimensions	
	(D) can't be calcu	lated with given data		
60.	A metal pipe has a volume of the met		4 cm and internal dian	neter of 3 cm and is 20 cm long, then the
	(A) 22 cm ³	(B) 110 cm ³	(C) 220 cm ³	(D) 440 cm ³

(A) 22 cm³
(B) 110 cm³
(C) 220 cm³
(D) 440 cm³ **61.** A rectangular paper of dimensions 6 cm and 3 cm is rolled to form a cylinder with height equal to the width of the paper, then its base radius is

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62.	A conical container o	(D) $\frac{3}{2\pi}$ crn of base radius 'r' and h nr, then it will occupy a	neight 'h' is full of wat	(D) $\frac{9}{2\pi}$ cm er which is poured into a cylindrical
	(A) 3m ² h	(B) $\frac{h}{3m^2}$	(C) $\frac{\text{mh}}{3}$	(D) $\frac{3h}{m}$
63.	The volume of a sphe	ere of diameter 2p cm i	s given by	
	(A) πp ² cm ³	(B) πp ³ cm ³	(C) $4\pi p^3 \text{ cm}^3$	(D) $\frac{4}{3}\pi p^3 cm^3$
64.	The radius of a solic obtained is	d sphere is 'r' cm. It i	is bisected, then the t	otal surface area of the two pieces
	(A) $8\pi r^2 cm^2$	(B) $4\pi r^2 cm^2$		(D) $6\pi r^2$ cm ²
65.	(A) 200%	re is increased by 50% (B) 150%	surface area of a sphere is (D) 50%	
66.		()	(C) 125% m ² of a sphere are num	nerically equal, then the radius of the
	(A) 4	(B) 2	(C) 3.5	(D) 3
67.	A sphere of radius 5 c 3 cm is	cm weights 4.4 kg, then	the weight of a sphere	of the same material whose radius is
	(A) 2.64 kg	(B) 1.584 kg	(C) 0.9504 kg	(D) $\frac{4}{3}$ (0.9504) kg
68.	The volume of a sph	ere is $\frac{4}{2}$ r ³ cubic units,	then the ratio of the v	volume of a cube to that of a sphere
	which will fit inside th	3		
	(A) $\frac{4}{3}$: π	(B) 6 : π	(C) 4 : 3	(D) 4 : π
69.	5		e and the curved surface	e of circumscribed cylinder, then S_1 is
	equal to			
	(A) S ₂	(B) 2S ₂	(C) 2S ₂	(D) $\frac{2}{3}$ S ₂
70.			r whose height is equa	I to the diameter of its cross section,
	then the ratio of thei $\sqrt{2}$			2
	(A) $\sqrt{\frac{2}{3}}$	(B) $\sqrt{\frac{3}{2}}$	(C) $3\sqrt{\frac{2}{3}}$	(D) $3\sqrt{\frac{3}{2}}$
71.				ase and thel heights are equal to the mes are proportional respectively to
	(A) 1: 2 : 3	(B) 3: 2 : 1	(C) 2: 1 : 3	(D) 1: 3 : 2
72.	In the case of cuboid, faces, then	, No denotes the numbe	er of vertices, ${\sf N}_1$ the nu	umber of edges and $\mathrm{N_2}$ the number of
		(B) $N_0 + N_2 = N_1 + 2$	(C) $N_1 + N_2 = N_0 + 2$	(D) $N_1 + N_2 = 2N_0$
73.	-	ectangle is twice one c		atio of the sides of the rectangle is
74.	(A) $\sqrt{2}$: 1	(B) $\sqrt{3}:1$	(C) $2\sqrt{2}$:1	(D) $2\sqrt{3}$:1
/4.	perimeter of the rect	angle are equal, then t	the breadth of a rectan	umerical values of the area and the gle will be
75	(A) 2 cm	(B) 3 cm	(C) 1 cm	(D) 5 cm
75.	increased by	iy side of a trialigie is	s increased by 50%, t	hen the area of the triangle will be
76	(A) 50%	(B) 100%	(C) 125%	(D) 150%
76.		s naiveu when its rad	nus is decreased by n,	then the radius is equal to

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	(A) n (2 + $\sqrt{2}$)	(B) $n(\sqrt{2}-1)$	(B) $n(3-\sqrt{2})$	(C) n√2
77.		s in the circumference		he number of units in the area, then
	(A) 1 unit	(D) 2 units	(C) 3 units	
78.	the whole figure is			sides of the square, then the area of
70		(B) $(4 + 4\pi)$ cm ²		
79.		a circle. Then the area		f an equilateral triangle, a square, a en the shape is
	(A) triangle	(B) square	(C) hexagon	
80.	a circle, then the are	a of the circle will be		cm ² . If the same wire is bent to form
	(A) $\frac{\pi S^2}{\pi}$	(B) $\frac{3S^2}{\pi}$	(C) $\frac{3S}{\pi}$	(D) $\frac{3S\sqrt{3}}{\pi}$
81.				area of the face of one to that of the
	(A) 1: 3		(C) 1: 9	
82.		ht of a circular cylinde urface to the sum of th		s base is 1 : 2, then the ratio of the s is
02	(A) 1: 1	(B) 1: 2	(C) 2:1	
83.	height '2h' having the	e same circular base, a	re in th <mark>e ratio</mark> of	
84.	(A) 1 : 2 The volume of the ar			
	ic	(B) 1: 2 (C) 2:1 (D) 1: 3 urface of a circular cylinder of height 'h' and the curved surface area of the co- aving the same circular base, are in the ratio of (B) 2: 1 (C) 1: 1 (D) 1: 3 of the greatest sphere cut off from a cylindrical wood of base radius 1 cm and h $a \text{ cm}^3$ (B) $\frac{4}{3} \pi \text{ cm}^3$ (C) $5\pi \text{ cm}^3$ (D) $\frac{10\pi}{3} \text{ cm}^3$ er of glass whose diameter is 1.5 m and height 1 m is melted and recasted into		
	(A) $\frac{4}{2} \times (5\pi) \text{ cm}^3$	(B) $\frac{4}{2} \pi \text{ cm}^3$	(C) 5π cm ³	(D) $\frac{10\pi}{2}$ cm ³
85.		ass whose diameter is 1		-
	(A) 1 m	(B) 0.75 m	(C) 1.25 m	(D) 1.5 m
86.	The perimeter of a r	ight angled triangle is	60 cm and its hypoter	nuse is 26 cm, then the area of the
	triangle is (A) 120 cm ²	(B) 121 cm ²	(C) 119 cm ²	(D) 125 cm ²
87.		hexagon is 'p' cm, the	n its area is	
	(A) $\frac{\sqrt{3}}{2} p^2 cm^2$	(B) $\frac{3\sqrt{3}}{2}$ p ² cm ²	(C) $2\sqrt{3}p^2cm^2$	(D) $6\pi^2 \text{cm}^2$
88.	If every side of a tria one. The value of K is	ingle is doubled, then t		angle is 'K' times the area of the old
	(A) 2	(B) 3	(C) √2	(D) 4
89.	If the longer side of rectangle goes up by		I and the other reduce	ed to half, then the area of the new
	(A) 50%	(B) 100%	(C) 150%	(D) no change
90.	of the squares will be	2		squares of equal area, then the sides
91.	(A) 4 cm	(B) 6 cm	(C) 7 cm	(D) none elted to form a new cube whose side
91.	is	whose eages are 5 CIII	, - Chi anu 5 Chi ale III	
07	(A) 4 cm	(B) 5 cm	(C) 6 cm	(D) 12 cm
92.	A closed tea box has a for lining it is	47 cm × 47 cm × 60 c	in internal dimensions,	, then the total area of tin foil needed
	(A) 1.57 m	(B) 1.81 m	(C) 1.46 m	(D) 2.10 m

 94. A wood 1 cm thick required to make a box of dimensions 24 cm × 22 cm (A) 2276 cm³ (B) 2500 cm³ (C) 2600 cm³ (D) 5 95. The volume of a solid cubical box whose surface area is 600 cm² is 															
93.							d are ir	n the ra	tio of 5	5:4:2	and th	e total	surface	area i	s 121
			volum				(C) 2660	cm ³	(D) 270	0 cm ³			
94.	. ,		hick re	• • •			• •						is		
											D) 237		-		
)5.	. ,		a solio				• •				,				
-											D) 900) cm ³			
96	. ,		ach of	• •			• •	,					- resulti	ina cul	hoid
													c result	ing cui	Joiu
7			f bullot				• • •	,					cido ic	11 cm	ic
· / ·			Dullet										Side is	44 CIII	15
	• •		falaa			maltad	• • •		into o				r of hoj	~ h + 0 ~	
78.									into a	ngnt c	ircular	cynnae	r or neig	ynt 8 c	in a
	(A) 6 cn			(B)) 8 cm			D) 9 cr				
99.	If a sph		tho c	• •		urfacor	• •	,	urfaco					ht 40 c	- m
9.	radius 3							iotal s	unace	area or	cone	or vertic	anneigi	10 40 0	.III d
	(A) 10 v		chen c		L0√3 c) 10 \sqrt{2}	cm	,	D) 12 (-m			
	•		£		•		• • •	, ·		12					
.00.	If the sphere of radius 6 cm is melted and drawn into a wire of radius 0.2 cm, then the length of the wire is														
	(A) 75 cm (B) 72 cm) 72 m			(D) 75 r				
) / 2 11				·			
						ΔΝ	SWI	ER I	KEY	,					
_										_					
						M	ENGL	RATIO							
~					-		1								
Que.	-	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	В	В	D	A	С	D	D	В	A	В	A	D	D	В	D
Que.	-	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	В	Α	Α	D	C	D	D	D	C	В	D	В	Α	Α	C
Que.	31	32	33	34	35	36	37	38	39	40	41	4 2	43	44	45
Ans.	В	В	D	Α	C	В	D	D	D	С	С	С	D	D	D
Que.	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Ans.	D	В	С	A	В	С	В	С	В	D	Α	С	В	В	B
Que.	61	62	63	64	65	66	67	68	69	70	71	7 2	73	74	75
Ans.	C	В	D	D	C	D	С	В	А	D	D	В	В	В	С
Que.		77	78	79	80	81	82	83	84	85	86	87	88	89	90
Ans.		В	A	D	D	C	A	C	B	B	A	B	D	D	D
Que.		92	93	94	95	96	97	98	99	100					
							1	1							
Ans.	С	A	В	D	A	В	В	С	A	С					