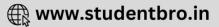
## **Surface Areas and Volumes**

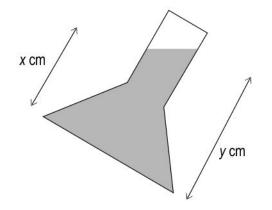
Р	3	5
Q	5	7
R	3.5	10

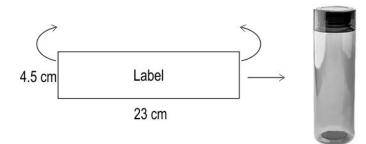
only P and Q
only Q and R
only R and P
(P, Q and R have different curved surface areas because they have different radii and slant heights)

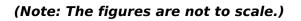






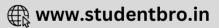


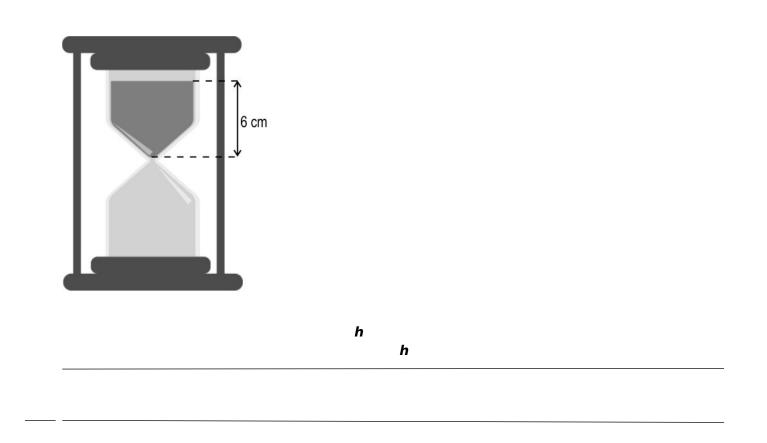




(Note: Take π as — .)





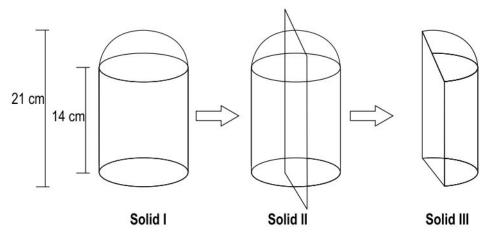




(Note: Assume that each label covers the curved surface area of the cup without any overlap; the figure is not to scale; use  $\pi$  as 3.14.)

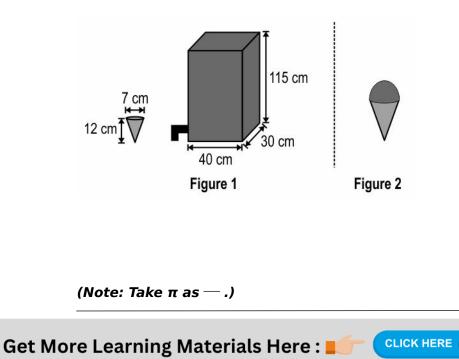
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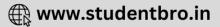






(Note: Take π as — .)

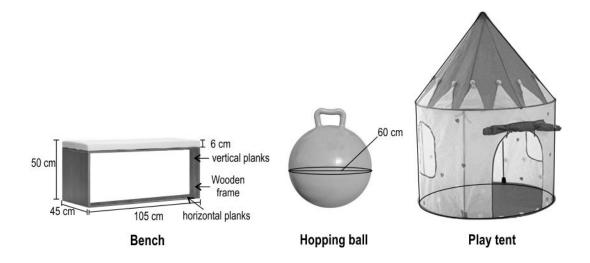




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## ase tudy

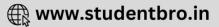
An indoor kids play area has a cuboidal sitting bench, a hopping ball and a play tent as shown in the figure. The hopping ball has a handle attached to a sphere. Air is filled in the spherical part which is locked using a peg. The tent consists of a conical section exactly on top of a cylindrical section.

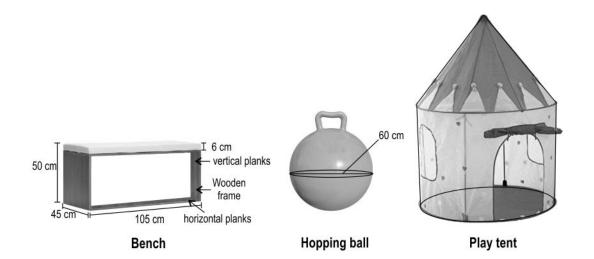


(Note: The figure is not to scale.)

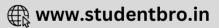
The height of the cylindrical section of the tent is one and a half times the height of the conical section of the tent. The height and the diameter of the conical section of the tent are equal.





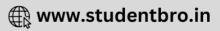






Q.No	Correct Answers
1	2





Q.No	What to look for	Marks
	rH=-rhH hr	
	н —	
	r — r	
	r h	
	h	
	rh - rh + r h	
	h	
	h — h + h h — h	

Q.No	What to look for	Marks
	$\sqrt{4^2 + (5.5 - 2.5)^2} = 5$	
	—	
	_	
	_	



Q.No	What to look for	Marks
	l×b×h l	
-	b h	
	- r r h=	
	r h =	
	- r	
	h	
	"	
	$(1)^2$	
	$\frac{1}{3} \times \pi \times \left(\frac{h}{2}\right)^2 \times h$ $= \frac{\pi h^3}{12} \text{cm}^3$	
	$=\frac{\pi h^{3}}{12} \text{cm}^{3}$	
	— h	

Q.No	What to look for	Marks
	-h - h	

