

WANDOOR GANITHAM - S S L C UNIT TEST 2021

8.02AE

SOLIDS – ANSWER KEY

Qn no.	Key	Score	
1	a) $\sqrt{9^2+12^2}=15\text{ cm}$	1	2
	b) $\pi \times 9 \times 15 = 135\pi\text{ cm}^2$	1	
2	a) $\sqrt{17^2-8^2}=15\text{ cm}$	1	2
	b) $\frac{1}{3} \times \pi \times 8^2 \times 15 = 320\pi\text{ cm}^3$	1	
3	a) 20 cm	1	2
	b) $10\sqrt{3}\text{ cm}$	1	
4	a) $\sqrt{5^2+12^2}=13\text{ cm}$	1	3
	b) $\pi \times 5^2 + \pi \times 5 \times 13 = 90\pi\text{ cm}^2$	1	
	c) $\frac{90 \times 3.14}{10000} \times 10000 \times 10 = \text{Rs } 2826$	1	
5	a) 5 l	1	3
	b) 8:15	1	
	c) $\frac{320\pi \times 15}{8} = 600\pi\text{ cm}^2$	1	
6	a) $36\pi\text{ cm}^2$	1	4
	b) $\frac{36\pi}{3\pi} = 12\text{ cm}$	1	
	c) 12 cm	1	
	d) $\frac{3 \times 360}{12} = 90^\circ$	1	

7	<p>a) $\pi \times 12^2 \times 16 = 2304 \pi \text{ cm}^3$</p> <p>b) $\frac{1}{3} \times \pi \times 12^2 \times 16 = 768 \pi \text{ cm}^3$</p> <p>c) $2304 \pi - 768 \pi = 1536 \pi \text{ cm}^3$</p> <p>d) $\frac{1536 \pi}{\frac{1}{3} \times \pi \times 4^2 \times 6} = 48$</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p>	<p>4</p>
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