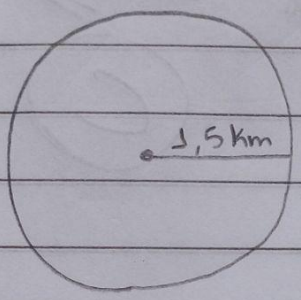
Aluno: **Leonardo Yukio Aoki** Turma: **CTII 348**
Prontuário: **CB1990233** *IFSP - Câmpus Cubatão*

Tarefa Básica - Aula 2

1.



$2p = 2\pi r$

$2p = 2 \cdot 3{,}14 \cdot 1{,}5$

$2p = 6{,}28 \cdot 1{,}5$

$\boxed{2p = 9{,}42 \text{ km}}$

$1\text{L} \rightarrow 6\text{km}$

$120\text{L} \rightarrow x$

$x = 120 \cdot 6$

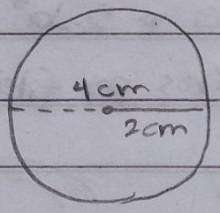
$\boxed{x = 720 \text{ km}}$

$\frac{720}{9{,}42}$

$\boxed{76{,}43}$

C

2.



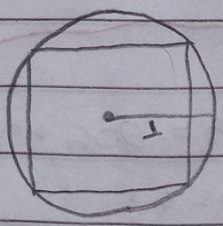
$2p = 2\pi r \cdot 10$

$2p = 2\pi \cdot 2 \cdot 10$

$\boxed{2p = 40\pi}$

C

3.



$S_{\odot} = \pi r^2$

$S_{\square} = \frac{d^2}{2} + \frac{(2r)^2}{2}$

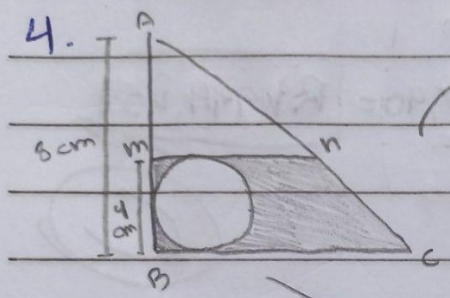
$\pi r^2 - \frac{(2r)^2}{2}$

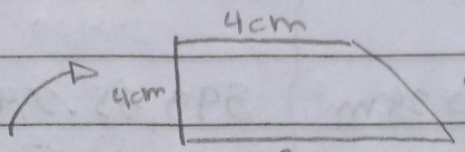
$\pi k^2 - 2k^2$

$\boxed{\pi - 2}$

D

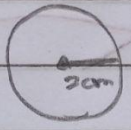
4.





$S_{mnBC} = \frac{(8+4) \cdot 4}{2}$

$S_{mnBC} = \frac{12 \cdot 4}{2} = \boxed{24\text{ cm}^2}$



$S_{\odot} = 3{,}1 \cdot 2^2$

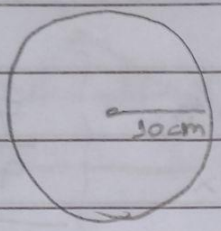
$S_{\odot} = \boxed{12{,}4\text{ cm}^2}$

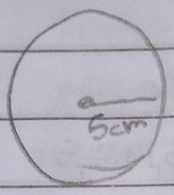
Região rachurada $= 24 - 12{,}4$

$= \boxed{11{,}6\text{ cm}^2}$

A

5.

C_1 

C_2 

$S_{C_1} = \pi 10^2$

$S_{C_1} = \pi 100$

$2p = 2\pi 5$

$2p = 10\pi$

$\frac{100\pi}{10\pi} = \boxed{10\text{ cm}}$

C

6. $\underbrace{1\text{ cm}^2 = 10\text{ mm} \cdot 10\text{ mm}}_{\text{superfície}}$

diâmetro do vírus $= 0{,}02 \cdot 10^{-3}$

$\frac{10}{0{,}02 \cdot 10^{-3}} = 500\,000 \rightarrow 5 \cdot 10^5$ vírus por fileira

$5 \cdot 10^5 \cdot 5 \cdot 10^5 = \boxed{25 \cdot 10^{10}}$

C

7.

Total $= 40 \cdot 15 = 600\text{ m}^2$

casa $= \frac{24 \cdot 12}{2} = 144\text{ m}^2$

piscina $= 3{,}14 \cdot 4^2 = 50{,}24\text{ m}$

vestiário $= 3{,}5^2 = 12{,}25\text{ m}^2$

$144 + 50{,}24 + 12{,}25 = 206{,}49$

$600 - 206{,}49 = 393{,}51$

$393{,}51 \cdot 2{,}40 = \boxed{\text{R\$ } 944{,}40}$

C