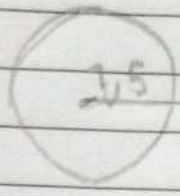
Tarefa Básico

1)



$2p = 2\pi r$
$2p = 2 \cdot 3{,}14 \cdot 7{,}5$
$2p = 6{,}28 \cdot 7{,}5$
$2p = 9{,}42$ Km

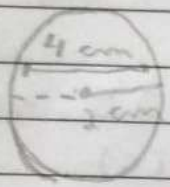
1L - 6 Km
120L - x

$x = 720{,}6$
$x = 720$ Km

$\frac{720}{9{,}42} \Rightarrow 76{,}43 \cong 76$

alternativa (C)

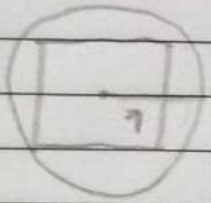
2)



$2p = 2\pi r\ 10$
$2p = 2\pi \cdot 2 \cdot 10$
$2p = 40\pi$

alternativa (C)

3)

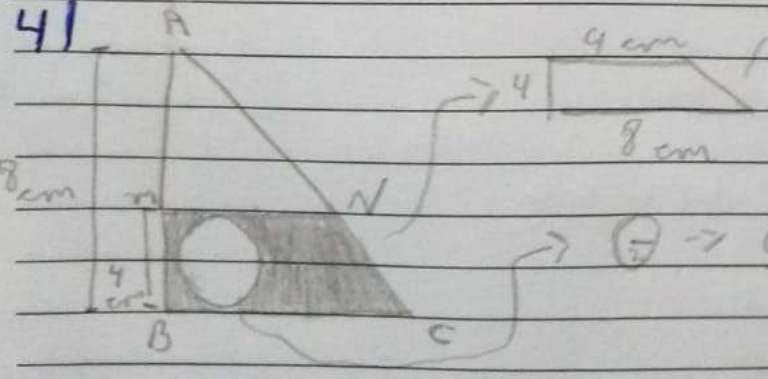


$S_{\odot} = \pi r^2$
$S_{\square} = \frac{d^2}{2} \Rightarrow \frac{(2r)^2}{2}$

$\pi r^2 - \frac{(2r)^2}{2}$
$\pi r^2 - \frac{4r^2}{2}$
$\pi r^2 - 2r^2$
$\pi - 2$

alternativa (D)

4)



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

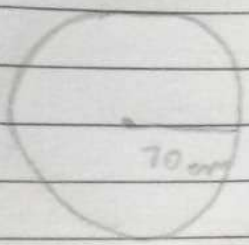
$S_{MNBC} = \frac{12 \cdot 4}{2} = 24\ cm^2$

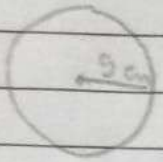
$S\odot = 3{,}1 \cdot 2^2$
$S\odot = 12{,}4\ cm^2$

alternativa (A)

Região sombreada = 24 - 12,4
= 11,6 cm^2

5)

C_1 

C_2 

$S_{c_1} = \pi 10^2$

$S_{c_1} = \pi 100$

$2p = 2\pi 5$

$2p = 10\pi$

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

alternativa (C)

6) $1\ cm^2 = 10\ mm \cdot mm$ (superfície)

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

$\frac{10}{0{,}02 \cdot 10^{-3}} = 500000 \Rightarrow 5 \cdot 10^5$ (por palavra)

$5 \cdot 10^5 \cdot 5 \cdot 10^5 = 2{,}5 \cdot 10^{10}$

alternativa (C)

7)

Total $= 40 \cdot 15 = 600\ m^2$

casa $= \frac{24{,}72}{2} = 744\ m^2$

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

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

Soleiras

$744 + 50{,}24 + 12{,}25 = 206{,}49$

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

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

alternativa (C)