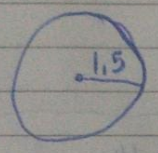
Nome: Gustavo Murilo Cavalcante Carvalho CTII 348

1- 

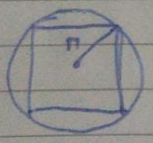
$2p = 2\pi R = 2 \cdot 3{,}14 \cdot 1{,}5 = 3 \cdot 3{,}14 = 9{,}42$ Km

1L – 6 Km
120L – x
$\rightarrow x = 720$ Km

$\frac{720}{9{,}42} \cong 76$ (C)

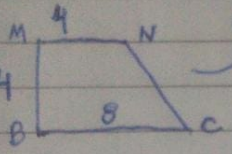
2- $d = 4$ cm, $r = 2$ cm
$2p = 2\pi \cdot 2$
$2p = 4\pi$

$4\pi \cdot 10$ voltas
40π (C)

3- 

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

$\pi r^2 - 2r^2 = \pi - 2$ (D)

4- 

$S = 12 \cdot 4 / 2 = 24\ cm^2$

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

Area hachurada $= 24 - 12{,}4 = 11{,}6\ cm^2$ (A)

5- $S_{C1} = \pi 10^2 = 100\pi$

$2p$ de $C2 = 2\pi 5 = 10\pi$

$\frac{100\pi}{10\pi} = 10$ cm (C)

6- $1\ cm^2 = 10\ mm \cdot 10\ mm$

$\frac{10}{2 \cdot 10^{-5}} = 5 \cdot 10^5$ vírus por linha

$(5 \cdot 10^5)^2$
$25 \cdot 10^{10}$ (C)

7- $S_{total} = 40 \cdot 15 = 600\ m^2$

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

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

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

$144 + 50{,}24 + 12{,}25 = 206{,}49\ m^2$

$600 - 206{,}49 = 393{,}51\ m^2$

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