tarefa básica

ÁREA DO CÍRCULO

① $C = 2 \cdot \pi \cdot R$

$R = 1,5$ km

6 km por litro (120 litros) → $120 \cdot 6 = 720$ km

nº voltas = ?

$C = 2 \cdot \pi \cdot 1,5$

$C = 3\pi$

$C = 3 \cdot 3,14$

$C = 9,42$

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

$n = 76,43$

$\cong 76$ Alternativa C)

② 10 voltas

diâmetro = 4 cm → raio = 2 cm

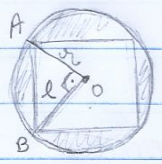
$C = 2 \cdot \pi \cdot R$

$C = 2 \cdot \pi \cdot 2$

$C = 4\pi$ → 10 voltas $= 4\pi \cdot 10 = 40\pi$

Alternativa C)

③ raio = 1 $A = ?$ → $A = A_{circunferência} - A_{quadrado}$



$A_{\square} = l^2$ → $l^2 = 1^2 + 1^2 = l = \sqrt{2}$

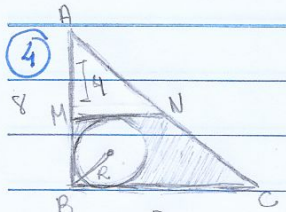
$A_O = \pi \cdot R^2$

$A = \pi \cdot (1)^2 - (\sqrt{2})^2$

$A = \pi - 2$

Alternativa D)

④



$\pi = 3,1$

$R = \frac{h}{2}$

$R = \frac{4}{2} = 2$

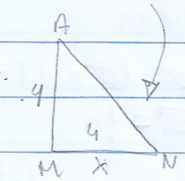
$\frac{ab}{am} = \frac{bc}{mn}$

$\frac{8}{4} = \frac{8}{x}$

$8x = 32$

$x = \frac{32}{8}$

$x = 4$



$A_{MNBC} = \frac{(B+b).h}{2}$

$A_{MNBC} = \frac{(8+4).4}{2}$

$A_{MNBC} = \frac{12.4}{2}$

$A_{MNBC} = 12.2$

$A_{MNBC} = 24\ cm^2$

$A_C = \pi . R^2$

$A_C = 3,1 . 2^2$

$A_C = 3,1 . 4$

$A_C = 12,4\ cm^2$

$A_{hach} = 24 - 12,4$

$A_{hach} = 11,6\ cm^2$

Alternativa A)

⑤ $C_1 \rightarrow R_1 = 10\ cm$

$C_2 \rightarrow R_2 = 5\ cm$

$A_{C1} = \pi . R^2$

$C_{C2} = 2 . \pi . R$

$A_{C1} = \pi . 10^2$

$A_{C1} = 100\pi$

$C_{C2} = 2 . \pi . 5$

$C_{C2} = 10\pi$

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

Alternativa C)

(6) diâmetro $= 0{,}02 \cdot 10^{-3}$ mm $= D$

$A = 1\ cm^2$

$D_{vírus} = 0{,}02 \cdot 10^{-3} \cdot 10^{-1}$

$D_{vírus} = 0{,}02 \cdot 10^{-4}$

$D = 2 \cdot 10^{-2} \cdot 10^{-4} = 2 \cdot 10^{-6}$ cm.

→ Quantos vírus cabem em uma fileira de 1 cm?

$$\frac{1}{2 \cdot 10^{-6}} = 0{,}5 \cdot 10^{6} = 5 \cdot 10^{-4} \cdot 10^{6} = 5 \cdot 10^{5}$$

1 | 1

→ fileiras verticais e horizontais

$(5 \cdot 10^5) \cdot (5 \cdot 10^5)$

$= 25 \cdot 10^{10}$ Alternativa C)

(7) $A_{praça} = A_{terreno} - A_{casa} - A_{piscina} - A_{vestiários}$

$A_g = A_{\square} - A_{\diamond} - A_{\bigcirc} - A_{\square}$

$$A_g = 15 \cdot 40 - \frac{12 \cdot 24}{2} - \pi \cdot 4^2 - 3{,}5 \cdot 3{,}5$$

$A_g = 600 - 144 - 3{,}14 \cdot 16 - 12{,}25$

$A_g = 456 - 50{,}24 - 12{,}25$

$A_g = 405{,}76 - 12{,}25$

$A_g = 393{,}51\ m^2$

m^2		R$
1	X	2,40
393,51		x

$x = 393{,}51 \cdot 2{,}4$

$x = R\$\ 944{,}40$

alternativa C)