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LISTA ÁREA DO CÍRCULO

01- R = 1,5 km $C = 2.\pi.1,5 = 3\pi$

n voltas → $Ct = 3\pi.n$

120.6 = 720 km → 1L a cada 6 km

∴ $3\pi.n = 720$

$n = \frac{720}{3\pi}$ → $n = \frac{720}{9,3,1416} = \boxed{76,39}$ (C)

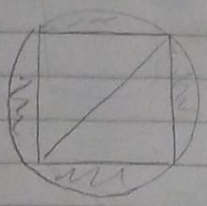
Outra forma
120.6 =
2π.1,5
≈ 76

02- $r = 2m$ $C_1 = 2\pi.r \rightarrow 2\pi.2 = 4\pi$

1 volta → $10.C_1 =$

$10.4\pi = \boxed{40\,cm}$ (C)

03-



$A_C = \pi.r^2 = \pi$

$d = l\sqrt{2}$

$2 = l\sqrt{2}$

$l = \frac{\sqrt{2}}{\sqrt{2}} \cdot \sqrt{2} = \frac{2\sqrt{2}}{\sqrt{2}} = \sqrt{2}$

$l = \sqrt{2}$

$2.r = d$

$A_q = l^2$

$A_q = (\sqrt{2})^2 = 2$

Área entre Dois Círculos = $\boxed{\pi - 2}$ (D)

04- Área total do trapézio

$\frac{ab}{am} = \frac{ac}{mn} \rightarrow \frac{8}{4} \times \frac{8}{x} \rightarrow 8x = 8.4$

$x = \frac{32}{8} = 4$

Área do trapézio

$A = \frac{(B+b)h}{2}$

$A = \frac{(8+4)4}{2}$

$A = \frac{48}{2} = 24 cm^2$

Área do círculo

$Ac = \pi . r^2$

$Ac = 3,1 . 2^2$

$Ac = 12,4 cm^2$

At - Ac = área hachurada

$24 - 12,4 = 11,6 cm^2$ (A)

05- Área limitada por $C1 = \pi R^2 = 100\pi cm^2$

Perímetro de $C2 = 2\pi . r = 10\pi cm$

$\frac{\pi R_1^2}{2\pi R_2} = \frac{100}{10} = 10 cm$ (C)

06- $0,02 . 10^{-3} mm = 2 . 10^{-5} mm = 2 . 10^{-6} cm$

$AD = 2 . 10^{-6} / = 4 . 10^{-12} cm^2$

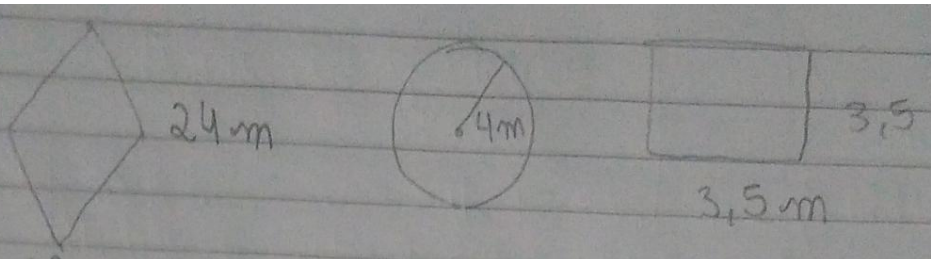
$n = \frac{1 cm^2}{4 . 10^{-12} cm^2} = 0,25 . 10^{12} = |25 . 10^{10}|$

Outra forma: $l^2 = 100$ $n = \frac{10}{0,2 . 10^{-3}}$

$l = 10 mm$ $n = 500000$ vírus

$N = 500000 . 500000 = |25 . 10^{10}|$ (C)

07 -



15 m F 40 m P

Área do gramado:

$$A = 40.15 - \frac{24.12}{2} - \pi.4^2 - (3,5)^2$$

$A = 600 - 144 - 50,24 - 12,25$

$A = 393,51 m^2$

com gramado: $393,51 . 2,40 = \boxed{944,42}$ (c)