

Área do Círculo

$$\frac{1}{120} \frac{12 - 6}{x}$$

$$1x$$

$$120 = 720 \text{ Km}$$

$$P = 2\pi r$$

$$P = 2 \cdot 3,14 \cdot 1,5$$

$$P = 9,42 \text{ Km}$$

$$720 / 9,42$$

(A) 54 (B) 63 (C) ~~76~~ (D) 82 (E) 91

$$\frac{2}{P = 2 \cdot \pi \cdot r}$$

$$2 \cdot 3,14 \cdot 2 \text{ cm}$$

$$628$$

$$P = 2\pi R$$

$$P = 2\pi \cdot 2 \text{ cm}$$

$$P = 4\pi \text{ cm}$$

$$n = \text{de voltas } 10$$

$$10 \times 4\pi \text{ cm} = 40\pi \text{ cm}$$

$$40\pi \text{ cm}$$

(A) 10π (B) 20π (C) ~~40π~~ (D) 50π (E) 80π

3)

a área dos quatro segmentos circulares é igual =

$$3,14 - 2 = 1,14$$

ou seja

$$\sqrt{2} \cdot \sqrt{2} = \sqrt{2^2} = 2$$

Área do círculo:

$$\pi r^2 = 3,14 \cdot 1 = 3,14$$

Área dos 4 segmentos circulares =

$$3,14 - 2 = 1,14$$

Teorema de Pitágoras

$$H^2 = C^2 + C^2$$

$$2^2 = x^2 + x^2$$

$$2^2 = 2x^2$$

$$4 = 2x^2$$

$$4/2 = x^2$$

$$2 = x^2$$

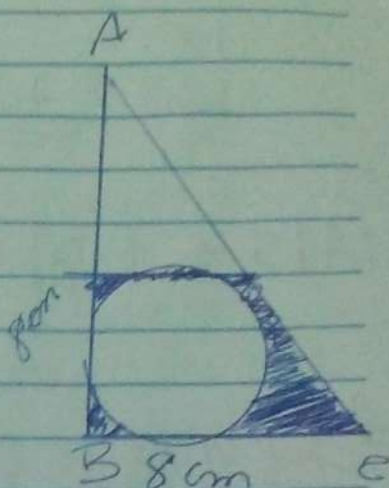
$$x = \sqrt{2}$$

4 Área do triângulo maior

$$S = \frac{B \cdot H}{2} = \frac{8 \cdot 8}{2} = \frac{64}{2} = \underline{\underline{32}}$$

Área do triângulo menor

$$S = \frac{b \cdot h}{2} = \frac{4 \cdot 4}{2} = \frac{16}{2} = \underline{\underline{8}}$$



Área da circunferência. $\pi \cdot r^2$ Considere $\pi = 3,1$

$$3,1 \times 2^2$$

$$3,1 \times 4 = 12,4$$

Área Hachurada = $S_{ABC} - S_{AMN} - A_{\text{cir}}$

$$\text{área Hachurada} = 32 - 8 - 12,4$$

$$\text{área Hachurada} = 24 - 12,4 =$$

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

5) $C_1 = R_1 = 10 \text{ cm}$	$\pi \cdot r^2$	$3,14 \cdot 10^2 =$
$C_2 = R_2 = 5 \text{ cm}$	$2 \cdot \pi \cdot r$	$3,14 \cdot 100 = \underline{\underline{314 \text{ cm}}}$

$$2 \cdot 314 \cdot 5$$

$$628 \cdot 5 = 314 \text{ cm}$$

$$\frac{314}{31,4} = 10 \text{ cm}$$

6)

$$x = 100x = 10 \text{ mm}$$

$$N = 10 \div 902 \cdot 10^{10}^{-3}$$

$$N = 5000000 \text{ virus}$$

$$n = 5000000 \cdot 5000000 = 25 \times 10^{10} \text{ virus}$$

ou

$$1 \text{ cm}^2 = 100 \text{ mm}^2$$

$$0,02 \cdot 10^{-3} \cdot 0,02 \cdot 10^{-3} = 0,0004 \cdot 10^{-6}$$

$$\frac{100 \cdot 10^0}{0,0004 \cdot 10^{-6}} = 25 \cdot 10^{10}$$

7)

$$\text{Area total do terreno} = 15 \times 40 = 600 \text{ m}^2$$

$$\text{Area do lago} = 144 \text{ m}^2$$

$$\text{Area piscina} = 100,48 \text{ m}^2 \quad 50,24 \text{ m}^2$$

$$\text{Area do quadrado de vestíbulos} = 35 \times 3,5 = 12,25 \text{ m}^2$$

$$\text{piscina} = 2 \pi r^2$$

$$2 \cdot 3,14 \cdot 4$$

$$6,28 \cdot 16 = 100,48 \text{ m}^2$$

$$\text{Area do lago} = \frac{D \cdot d}{2} = \frac{24 \cdot 12}{2} = 144 \text{ m}^2$$

$$\text{Area do lago} + \text{Area da piscina} + \text{Area do quadrado de vestíbulos} = 50,24 \text{ m}^2 + 12,25 \text{ m}^2 + 144 \text{ m}^2 = 206,49 \text{ m}^2$$

$$\text{Area total} = 206,49 \text{ m}^2$$

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

$$\text{metro quadrado da grama} = R\$ 2,40$$

$$393,51 \times 2,40 = R\$ 944,424$$

letra C