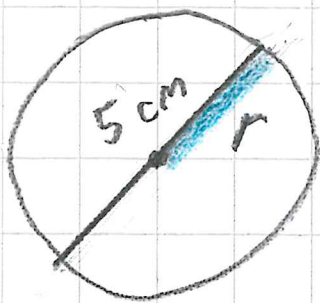


S, 207

946

$$p = 2 \pi r$$

a)

halkaisija $d = 5 \text{ cm}$

$$\text{säde } r = \frac{5 \text{ cm}}{2} = 2,5 \text{ cm}$$

$$\begin{aligned} p &= 2 \cdot 3,14 \cdot 2,5 \text{ cm} \\ &= 15,7 \text{ cm} \\ &\approx 16 \text{ cm} \end{aligned}$$

$$b) \quad r = \frac{12 \text{ m}}{2} = 6 \text{ m}$$

$$\begin{aligned} p &= 2 \cdot 3,14 \cdot 6 \text{ m} = 37,68 \text{ m} \\ &\approx 38 \text{ m} \end{aligned}$$

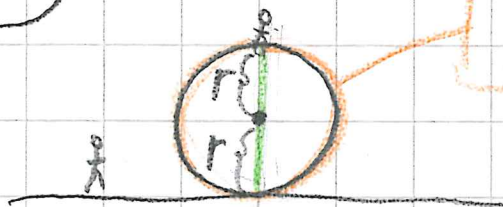
950

Helsinki

kehän pituus

$$p = 106,8 \text{ m}$$

$$p = 2 \pi r$$



$$2 \cdot 3,14 \cdot r = 106,8$$

$$\frac{6,28 r}{6,28} = \frac{106,8}{6,28} \quad \parallel : 6,28$$

$$\begin{aligned} V: \text{ korkeus } 0,17 \text{ m} \\ 17 \text{ m} \cdot 2 = 34 \text{ m} \end{aligned}$$

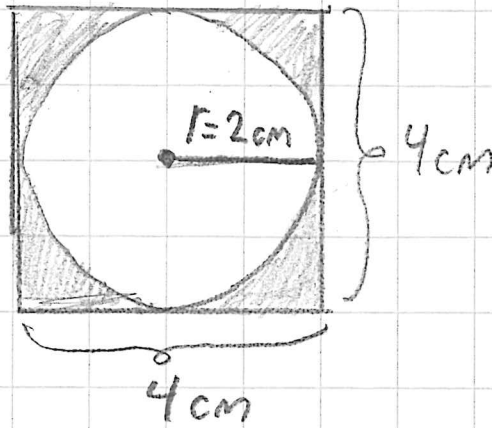
$$r = 17,006 \dots \text{ m}$$

$$r \approx 17 \text{ m}$$

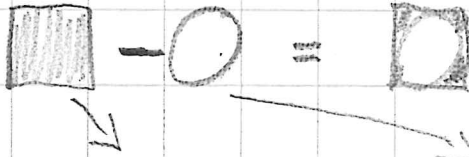
s.210

968

a)

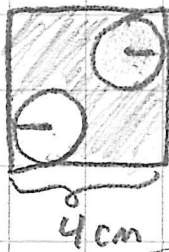


$$A = \pi r^2$$



$$\begin{aligned} A &= 4 \text{ cm} \cdot 4 \text{ cm} - 3,14 \cdot 2 \text{ cm} \cdot 2 \text{ cm} \\ &= 16 \text{ cm}^2 - 12,56 \text{ cm}^2 \\ &= 3,44 \text{ cm}^2 \end{aligned}$$

b)



$r = 1 \text{ cm}$

$$\begin{aligned} A &= 3,14 \cdot 1 \text{ cm} \cdot 1 \text{ cm} \\ &= 3,14 \text{ cm}^2 \end{aligned}$$

$$\begin{aligned} A &= 4 \text{ cm} \cdot 4 \text{ cm} - (3,14 \text{ cm}^2 + 3,14 \text{ cm}^2) \\ &= 16 \text{ cm}^2 - 6,28 \text{ cm}^2 \\ &= 9,72 \text{ cm}^2 \end{aligned}$$

946

C
D

s.207

967

s.210