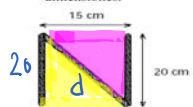
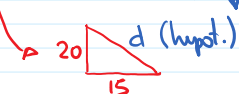


16) Calcula los centímetros de cuerda que se necesitan para formar las letras N, Z y X de las siguientes dimensiones.

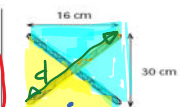
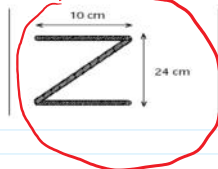


$$P = 20 + 20 + d$$

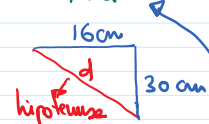


$$d = \sqrt{20^2 + 15^2} = \sqrt{400 + 225} = \sqrt{625} = 25 \text{ cm}$$

$$P = 40 + 25 = 65 \text{ cm}$$

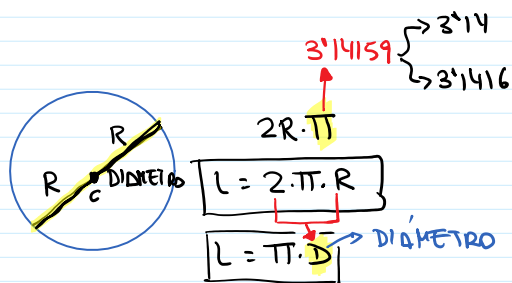
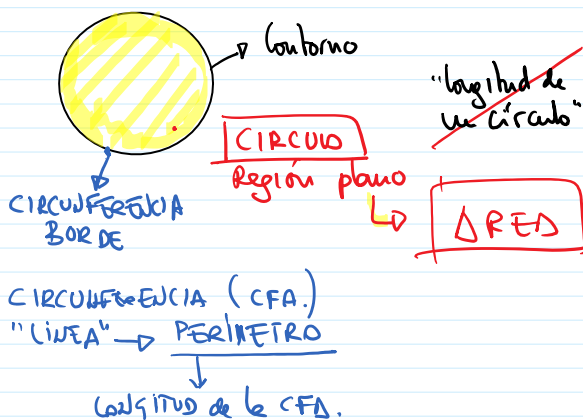
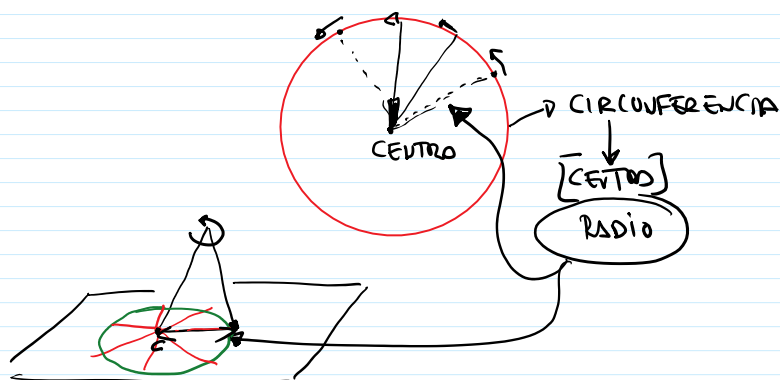


$$P = d + d$$

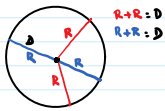


$$d = \sqrt{16^2 + 30^2} = \sqrt{256 + 900} = \sqrt{1156} = 34 \text{ cm}$$

$$P = 34 + 34 = 68 \text{ cm}$$



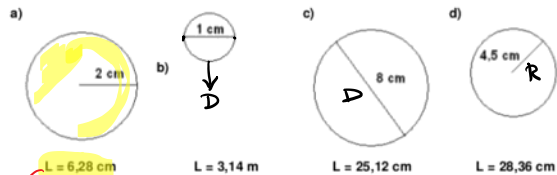
$L = \pi \cdot D$
 $D = 2R$ (do res radio)



$\text{ÁREA} = \pi \cdot R \cdot R = \pi \cdot R^2$
 $\text{ÁREA} = \frac{\pi D^2}{4}$

~~ÁREA DE CIRCULO~~

Teresa ha calculado las longitudes de las siguientes circunferencias, pero ha cometido algunos errores. Ayúdala a corregirlos.



(a) $R = 2$
 $L = 2 \cdot 2 \cdot \pi = 4 \cdot 3,14 = 12,56 \text{ cm}$
 $\Delta \text{ ERROR } L = \pi \cdot R = 3,14 \cdot 2 = 6,28$

ÁREA CIRCULO

$A = \pi \cdot R^2$
 $(6^2 = 12 !!)$
 $(6^2 = 36)$

(b)
 DIÁMETRO = 1
 $L = D \cdot \pi = 1 \cdot \pi = 3,14 \text{ cm}$
 TERESA 3,14 ✓ CORRECTO

(a) $R = 2$
 $A = 3,14 \cdot 2^2 = 3,14 \cdot 4 = 12,56 \text{ cm}^2$

(c)
 $L = D \cdot \pi = 8 \cdot 3,14 = 25,12 \text{ cm}$
 TERESA ✓

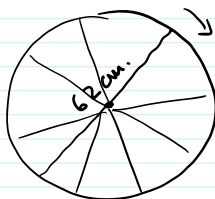
(b) $D = 1 \text{ cm} \rightarrow R = \frac{D}{2} = \frac{1}{2} = 0,5$
 $A = 3,14 \cdot 0,5^2 = 0,785 \text{ cm}^2$

(d) $R = 4,5 \text{ cm}$
 $L = 2 \cdot 4,5 \cdot 3,14 = 28,26 \text{ cm}$
 TERESA ✓

(c) $D = 8 \text{ cm} \rightarrow R = \frac{8}{2} = 4 \text{ cm}$
 $A = 3,14 \cdot 4^2 = 3,14 \cdot 16 = 50,24 \text{ cm}^2$

(d) $R = 4,5 \text{ cm}$
 $A = 3,14 \cdot 4,5^2 = 63,585 \text{ cm}^2$

PROBLEMA Rueda de una bici



¿CUANTO RECORREREMOS SI DAMOS 2000 VUELTAS?



1 VUELTA = 1 LARG. CFA.



1 VUELTA = 1 LARG. CFA.

$L = D \cdot \pi = 62 \cdot 3,14 = 194,68 \text{ cm}$



1 VUELTA = 1 LUG. CTA.



1 VUELTA = 1 LUG. CTA

$$L = D \cdot \pi = 62 \cdot 3.14 = 194.68 \text{ m}$$

1 vuelta $\approx$ 2 metros

$$\text{RECORRIDO} : 2000 \cdot 194.68 = 389360 \text{ cm}$$

$$389360 \text{ cm} = \frac{389360}{100} = 3893.6 \text{ metros}$$