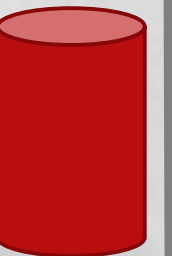
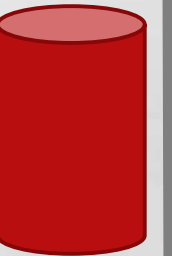
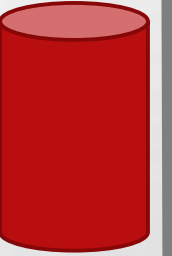
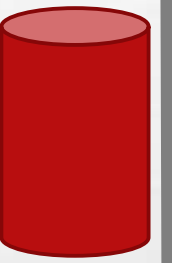


Problema

La o fabrica se produc cutii de tinichea in forma de cilindru cu raza bazei de 5 cm si inaltimea de 6 cm . Sa se determine cati metri patrati de tinichea se consuma la confectionarea a 5000000 ce cutii , daca se stie ca pentru unirea bazelor cutiei cu suprafata laterala se folosesc suplimentar 13 % de tinichea din suprafata totala (consideram $\pi = 3,14$)



Rezolvare :



$$V = \pi r^2 * H$$



$$V = 25 * 6 * 3,14 = 471 \text{ [cm}^2\text{]}$$

$$At = 2 \pi R (R + H)$$



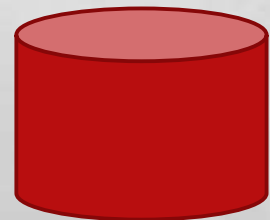
$$At = 2 * 3,14 * 5 * (6+5) = 345,4 \text{ [cm}^2\text{]}$$

$$345,4 \text{ } 100 \%$$



$$X = (13 \% * 345,4 \text{ cm}^2) / 100 \% = 44,902 \text{ [cm}^2\text{]}$$

$$X \text{ } 13 \%$$



$$A = 44,902 \text{ cm}^2 + 345,4 \text{ cm}^2 = 309,302 \text{ (cm}^2)$$

Trasformari :

$$390,302 \text{ cm}^2 = 0,390302 \text{ m}^2$$

$$N = 0,390302 * 5000.000 = 195151 \text{ m}^2$$



Raspuns :

Se vor consuma 195151 m²