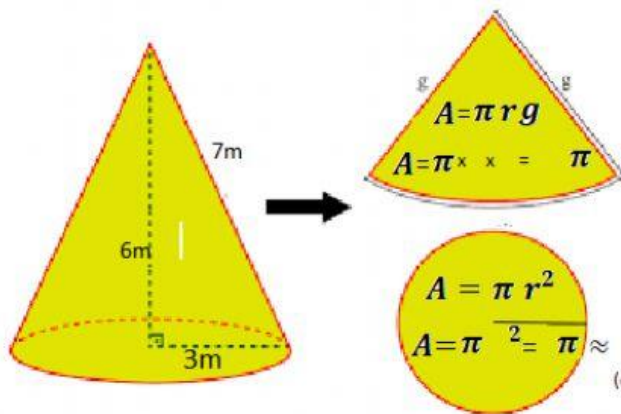


Áreas de superfícies de sólidos

Área da Superfície do cone



The diagram shows a cone with a height of 6m and a radius of 3m. An arrow points to its net, which consists of a sector (lateral surface) and a circle (base). The sector has a radius of 7m (the slant height) and an arc length of 6m. The circle has a radius of 3m.

Formulas for the area of the cone's surfaces:

$$A_{\text{cone}} = A_{\text{base}} + A_{\text{lateral}} = \quad + \quad = \quad \text{m}^2$$

For the lateral surface (sector):

$$A = \pi r g$$

$$A = \pi \times 3 \times 7 = 21\pi \approx 65.97 \text{ m}^2$$

(com uma casa decimal)

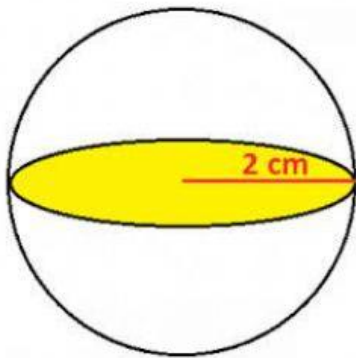
For the base (circle):

$$A = \pi r^2$$

$$A = \pi \times 3^2 = 9\pi \approx 28.27 \text{ m}^2$$

(com uma casa decimal)

Área da superfície esférica



Área da Superfície esférica: $4\pi r^2$, sendo r o raio da esfera

$$A = 4\pi r^2 = 4 \times \pi \times 2^2 = 16\pi \approx 50.27 \text{ m}^2$$

(com uma casa decimal)