

Nets and Surface Area

The net of a shape is a 2D representation of a 3D shape. Surface area is the total area of the outer surface of a 3D object. The surface area of a solid figure is equal to the total area of its net. To calculate the surface area of a shape, work out the area of each face and add them together.

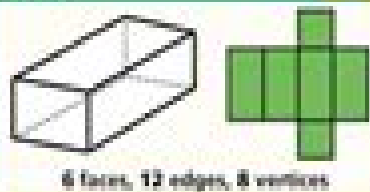
Nets



A solid figure has faces, edges and vertices (corners). A net is the surface of a solid shape folded out flat.



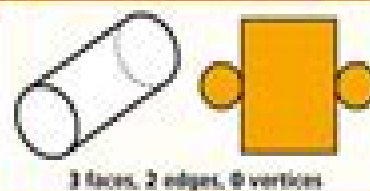
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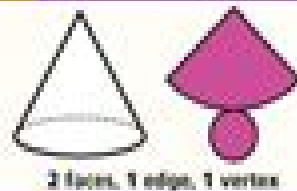
Triangular Prism



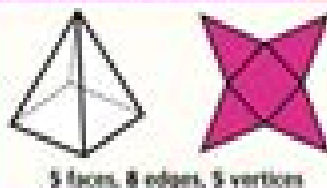
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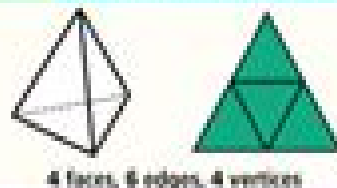
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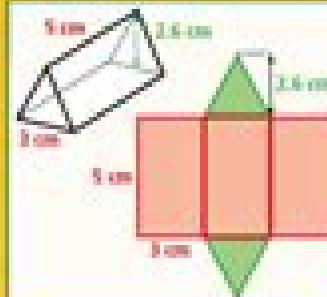
Square-based Pyramid



Triangular-based Pyramid



Triangular Prism



Calculate the area of the different sized faces:

$$\begin{aligned} \text{Area} &= l \times w \\ &= 5 \times 3 \\ &= 15 \text{ cm}^2 \end{aligned}$$

$$\begin{aligned} \text{Area} &= \frac{1}{2} \times b \times h \\ &= \frac{1}{2} \times 3 \times 2.5 \\ &= 3.75 \text{ cm}^2 \end{aligned}$$

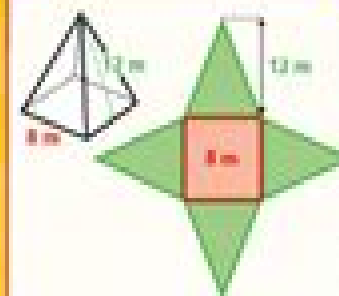
Multiply these areas by the number of corresponding faces:

$$15 \times 3 = 45 \text{ cm}^2$$

$$3.75 \times 2 = 7.5 \text{ cm}^2$$

Add the areas together: $45 + 7.5 = 52.5 \text{ cm}^2$

Square-based Pyramid



Calculate the area of the different sized faces:

$$\begin{aligned} \text{Area} &= l \times w \\ &= 8 \times 8 \\ &= 64 \text{ m}^2 \end{aligned}$$

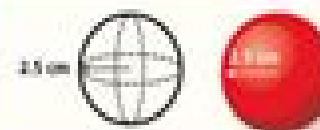
$$\begin{aligned} \text{Area} &= \frac{1}{2} \times b \times h \\ &= \frac{1}{2} \times 8 \times 12 \\ &= 48 \text{ m}^2 \end{aligned}$$

Multiply the area of the triangular face by the number of corresponding faces:

$$48 \times 4 = 192 \text{ m}^2$$

Add the areas together: $192 + 64 = 256 \text{ m}^2$

Sphere



$$\begin{aligned} \text{Surface area of sphere} &= 4 \times \pi \times r^2 \\ &= 4 \times \pi \times 2.5^2 \\ &= 78.5 \text{ cm}^2 \end{aligned}$$

Cone



$$\begin{aligned} \text{Surface area of cone} &= \pi \times r \times l + \pi \times r^2 \\ &= \pi \times 2 \times 5 + \pi \times 2^2 \\ &= 31.41 + 12.57 \\ &= 43.98 \text{ m}^2 \end{aligned}$$

Nets And Surface Area Tesc

Didier Musso



Nets And Surface Area Tesccc:

Decoding **Nets And Surface Area Tesccc**: Revealing the Captivating Potential of Verbal Expression

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