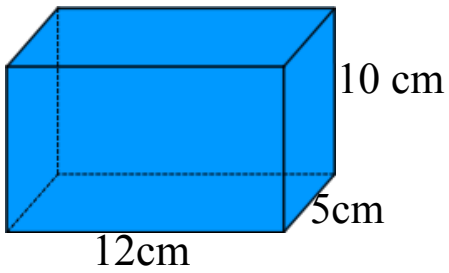
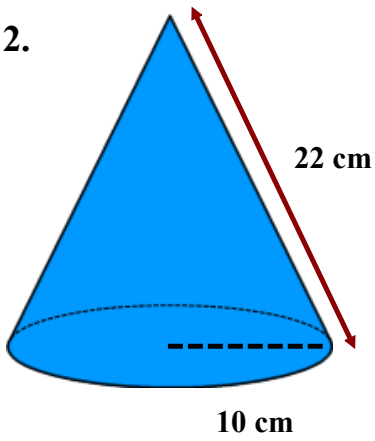


Calculate the surface area of the following 3D-Shapes.

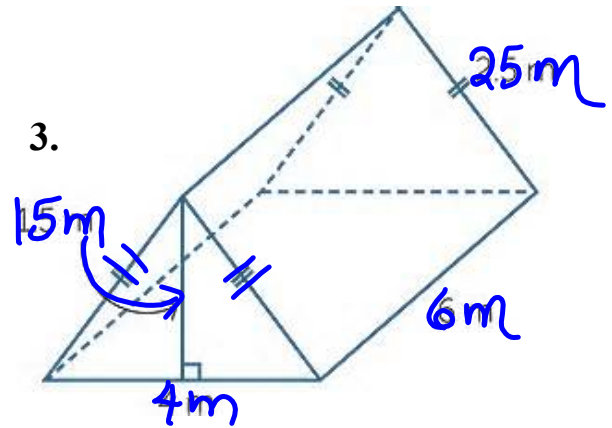
1.



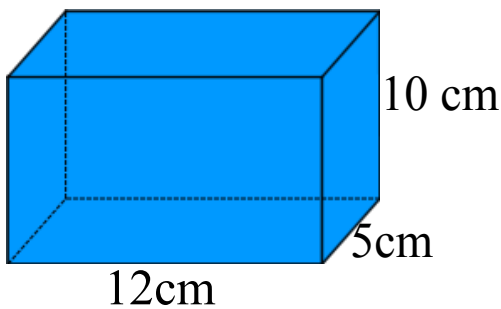
2.



3.



Calculate the surface area of the following 3D-Shape.



**Top & Bottom**  $\times 2$

$$\begin{aligned} A &= 2(L \times W) \\ A &= 2(12 \times 5) \\ A &= 2(60) \\ A &= 120 \text{ cm}^2 \end{aligned}$$

**Front & Back**  $\times 2$

$$\begin{aligned} A &= 2(L \times W) \\ A &= 2(12 \times 10) \\ A &= 2(120) \\ A &= 240 \text{ cm}^2 \end{aligned}$$

**Sides**  $\times 2$

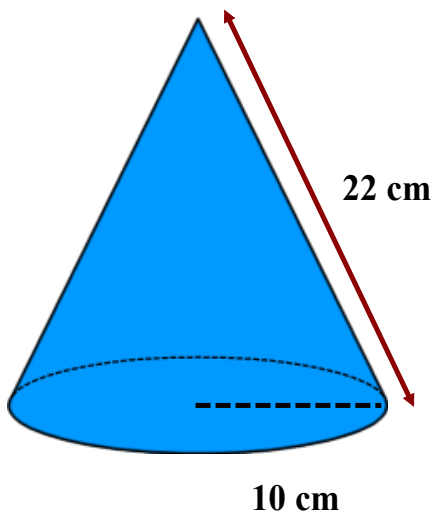
$$\begin{aligned} A &= 2(L \times W) \\ A &= 2(5 \times 10) \\ A &= 2(50) \\ A &= 100 \text{ cm}^2 \end{aligned}$$

Total Surface Area

$$\begin{array}{r} 120 \text{ cm}^2 \\ + 240 \text{ cm}^2 \\ \underline{100 \text{ cm}^2} \\ 460 \text{ cm}^2 \end{array}$$



*Calculate the surface area of the following 3D-Shape.*



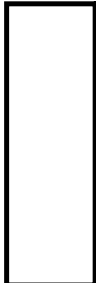
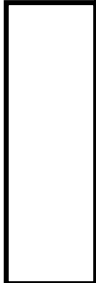
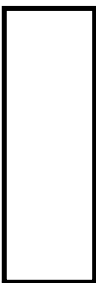
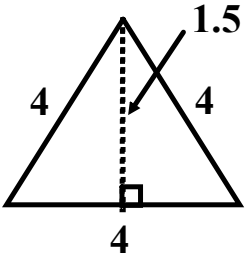
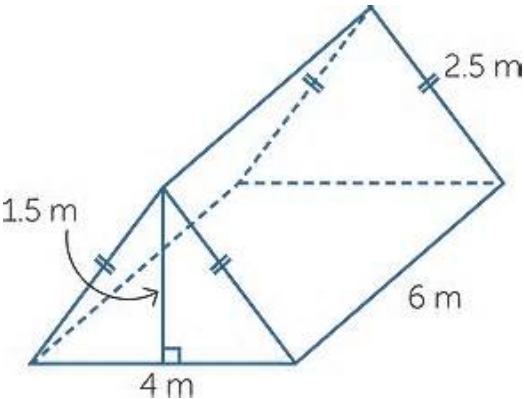
$$SA = \pi r^2 + \pi rs$$

$$SA = (3.14)(10)^2 + (3.14)(10)(22)$$

$$SA = (3.14)(100) + 690.8$$

$$SA = 314 + 690.8$$

$$SA = 1004.8 \text{ cm}^2$$





## Attachments

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Methods\_of\_Determining\_Probability.asf

The\_Many\_Sided\_World\_of\_Geometry\_\_Program\_6\_\_Figuring\_Out\_Area.asf