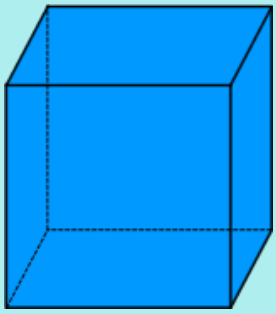
To calculate
SURFACE AREA
you must first
recognize every
side or face.

Draw the faces
of this
3D-figure



To calculate SURFACE AREA you must first recognize every side or face.

The faces of this 3D-figure are:

front

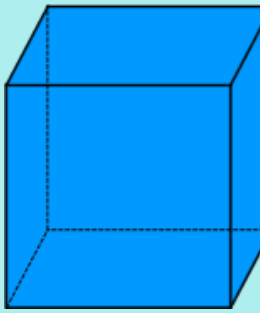
back

side

side

top

bottom



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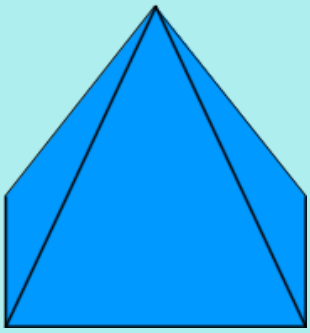

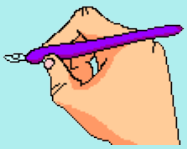

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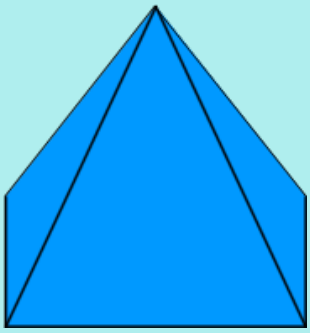

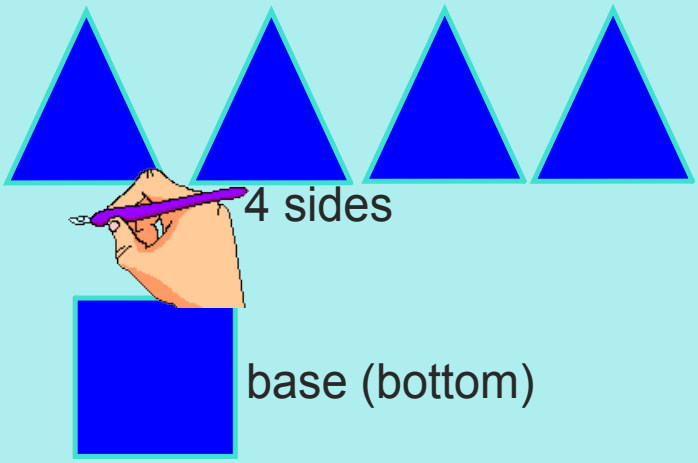

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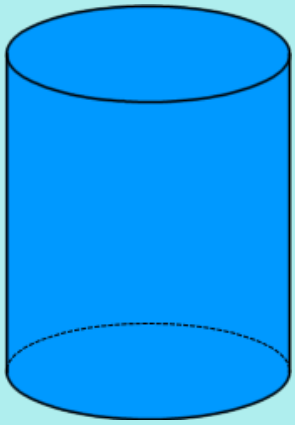

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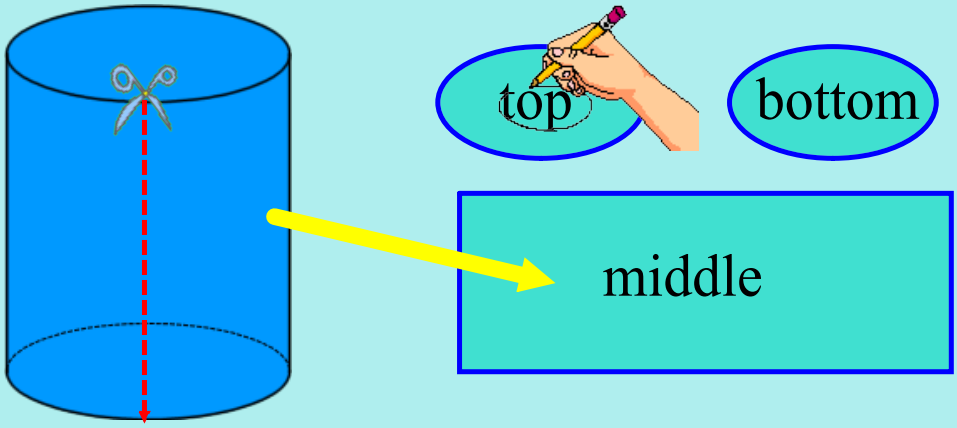


To calculate ...

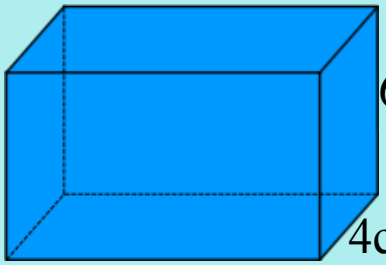
Surface area

1. Identify all sides or faces.

2. Calculate the area of each face.

3. Add all areas together.

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



Top & Bottom (will always be the same)
Front & Back (will always be the same)
Side & Side (will always be the same)

x 2

Top & Bottom

A = 2(L x W)
A = 2(11 x 4)
A = 2(44)
A = 88 cm²

x 2

Front & Back

A = 2(L x W)
A = 2(11 x 6)
A = 2(66)
A = 132 cm²

x 2

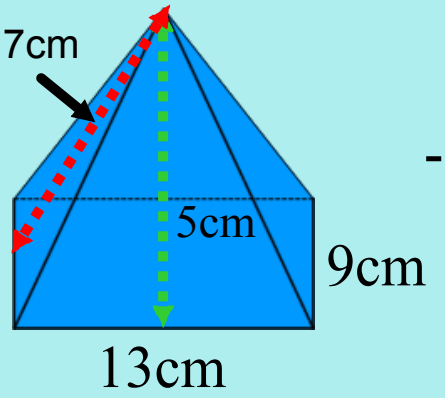
Sides

A = 2(L x W)
A = 2(4 x 6)
A = 2(24)
A = 48 cm²

Total Surface Area

88 cm²
132 cm²
48 cm²
268 cm²

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



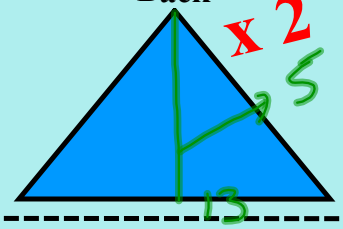
Bottom

$A = L \times W$

$A = 13 \times 9$

$A = 117\ cm^2$

Front & Back



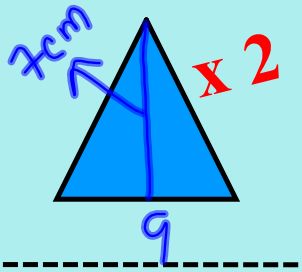
$A = 2\left(\frac{b \times h}{2}\right)$

$A = 2\left(\frac{13 \times 5}{2}\right)$

$A = 2(130/2)$

$A = 65\ cm^2$

Sides



$A = 2\left(\frac{b \times h}{2}\right)$

$A = 2\left(\frac{9 \times 7}{2}\right)$

$A = 2(126/2)$

$A = 63\ cm^2$

Total Surface Area = 117 + 65 + 63

$= 245\ cm^2$

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

This is special!

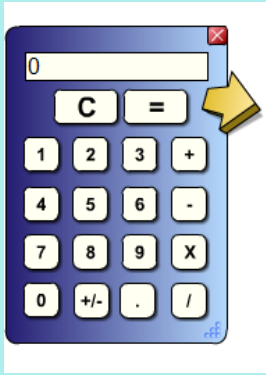
$SA = 2\pi r^2 + 2\pi rh$

$SA = 2(3.14)(2)^2 + 2(3.14)(2)(21)$

$SA = 2(3.14)(4) + 263.76$

$SA = 25.12 + 263.76$

$SA = 288.88cm^2$



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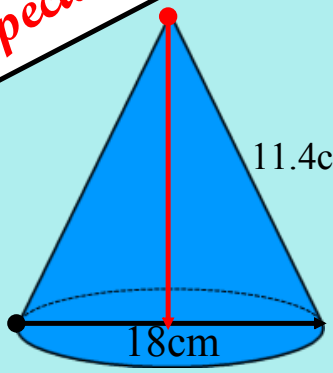
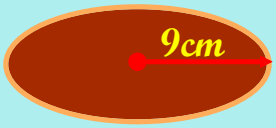
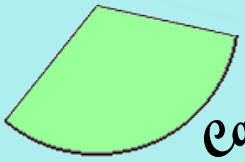
This is special!







Careful!

$A=\pi rs$

$$SA = \pi r^2 + \pi rs$$
$$SA = (3.14)(9)^2 + (3.14)(9)(11.4)$$
$$= (3.14)(81) + 322.164$$
$$= 254.34 + 322.164$$
$$= 576.504 \text{ cm}^2$$

Attachments

Methods_of_Determining_Probability.asf

The_Many_Sided_World_of_Geometry__Program_6__Figuring_Out_Area.asf