Finding the sum of all the areas of each face on a 3-D object is called calculating the surface area.

## Area of a rectangle and parallelogram:

$$
\text { Area }=\text { length } \times \text { width }
$$


b


Ex. Calculate the surface area to the nearest tenth of a square centimetre.

a)

b)



$$
\begin{aligned}
& x=\sqrt{3^{2}+3.35^{2}} \\
& x=4.5
\end{aligned}
$$

c) $360 \mathrm{~m}^{2}$
d) none of
the above.
$\qquad$ the above.
$\qquad$ d
$20.1+48+72$

If the above triangular prism was a greenhouse with a dirt floor, how much would it cost to build if glass costs $\$ 65$ per square meter.

$$
140.1 \mathrm{~m}^{2}-48=92.1 \mathrm{~m}^{2} \times 65=\$ 5986.50
$$

Ex. Calculate the surface area of cube if each face has an area of $9 \mathrm{~cm}^{2}$.


$$
9 \times 6=54 \mathrm{~cm}^{2}
$$

The sum of the edges of a cube is 84 cm , what is the $S A$ ?

$$
\text { Redye } \quad \begin{aligned}
84 \div 12 & =7 \text { edgelerght } \\
7^{2} & =49 \mathrm{~cm}^{2} / \text { face } \\
49 \times 6 & =294 \mathrm{~cm}^{2}
\end{aligned}
$$

Assignment p180 \#3,5-8,10-13,15

