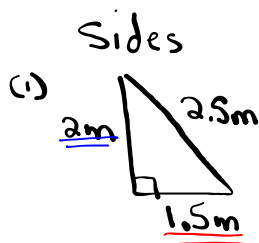
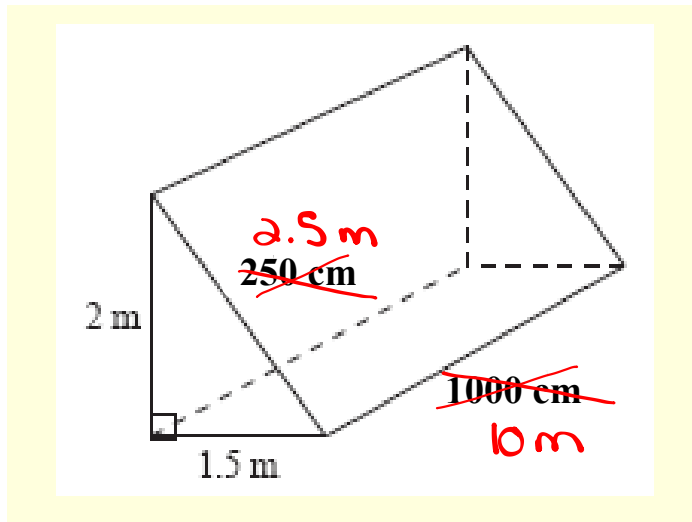


Calculate the surface area in meters.



$$A_{\Delta} = \frac{bh}{2}$$

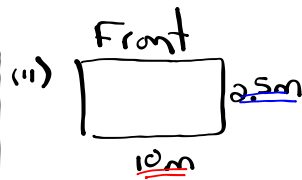
$$A_{\Delta} = \frac{(1.5)(2)}{2}$$

$$A_{\Delta} = \frac{3}{2}$$

$$A_{\Delta} = 1.5 \text{ m}^2$$

$$= 1.5 \text{ m}^2 \times 2$$

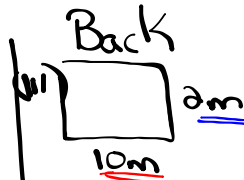
$$= \underline{\underline{3 \text{ m}^2}}$$



$$A_{\square} = \underline{b} \times \underline{h}$$

$$A_{\square} = (10 \text{ m})(2.5 \text{ m})$$

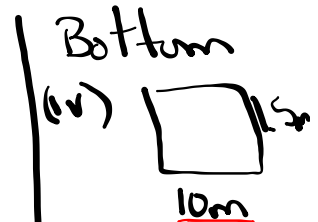
$$A_{\square} = \underline{\underline{25 \text{ m}^2}}$$



$$A_{\square} = \underline{b} \times \underline{h}$$

$$A_{\square} = (10)(2)$$

$$A_{\square} = \underline{\underline{20 \text{ m}^2}}$$



$$A_{\square} = \underline{b} \times \underline{h}$$

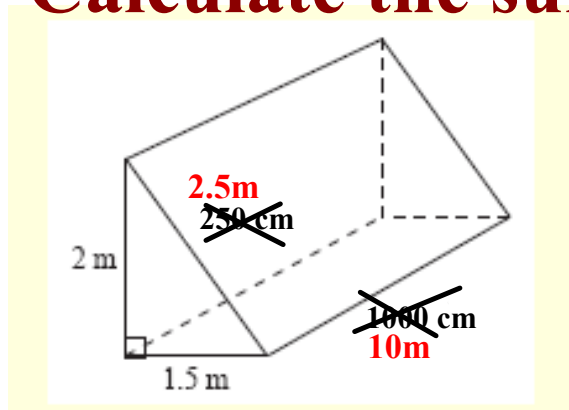
$$A_{\square} = (10)(1.5)$$

$$A_{\square} = \underline{\underline{15 \text{ m}^2}}$$

$$\text{Total Area} = 3 + 25 + 20 + 15$$

$$= \underline{\underline{63 \text{ m}^2}}$$

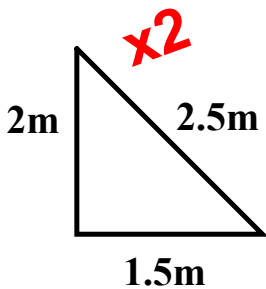
Calculate the surface area in meters.



number x $\frac{\text{want}}{\text{have}}$

number x $\frac{\text{m}}{\text{cm}}$

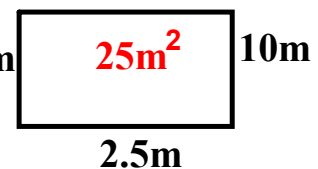
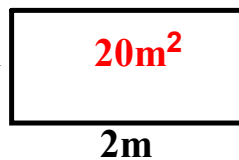
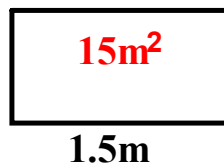
number x $\frac{1}{100}$



$$\frac{b \times h}{2} \times 2$$

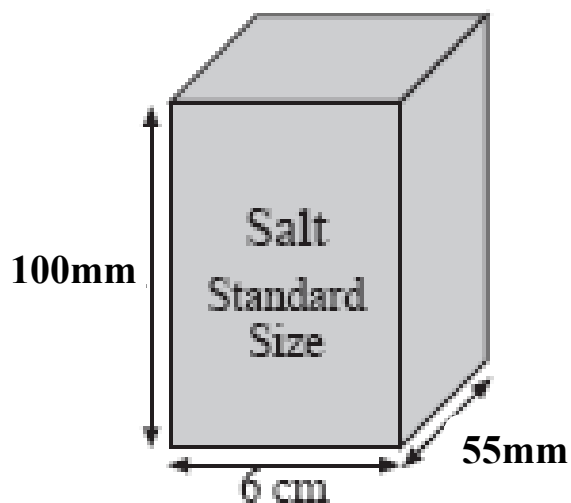
$$\frac{1.5 \times 2}{2} \times 2$$

$$= 3.0\text{m}^2$$

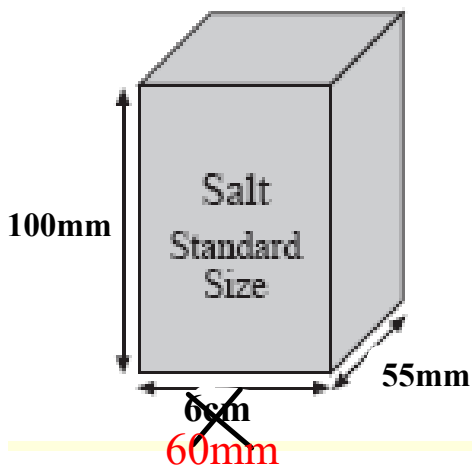


$$3 + 15 + 20 + 25 = 63\text{m}^2$$

Calculate the surface area in millimeters.



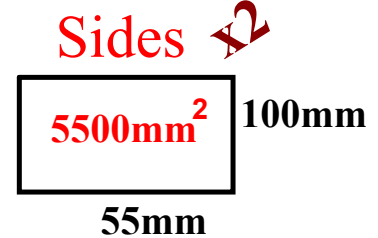
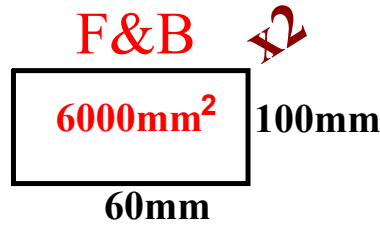
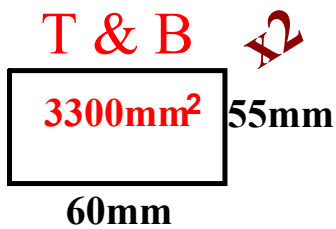
Calculate the surface area in millimeters.



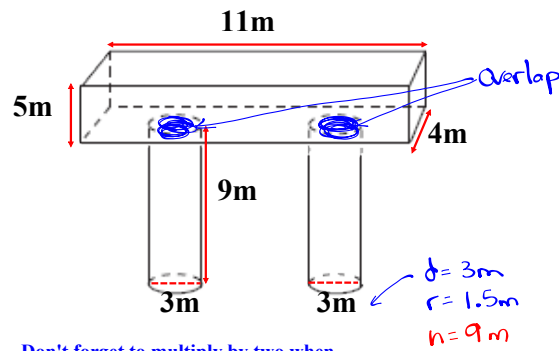
number x $\frac{\text{want}}{\text{have}}$

number x $\frac{\text{mm}}{\text{cm}}$

number x $\frac{10}{1}$



$$6600\text{mm}^2 + 12000\text{mm}^2 + 11000\text{mm}^2 = 29600\text{mm}^2$$



Don't forget to multiply by two when finding the overlap!!!

Rectangular Prism:

(i) Top/Bottom	(ii) Front/Back	(iii) Sides
$A = b \times h$	$A = b \times h$	$A = b \times h$
$A = 11 \times 4$	$A = 11 \times 5$	$A = 5 \times 4$
$A = 44 \text{ m}^2$	$A = 55 \text{ m}^2$	$A = 20 \text{ m}^2$
$A = 44 \text{ m}^2 \times 2$	$A = 55 \text{ m}^2 \times 2$	$A = 20 \text{ m}^2 \times 2$
$A = \underline{88 \text{ m}^2}$	$A = \underline{110 \text{ m}^2}$	$A = \underline{40 \text{ m}^2}$

$$\text{Total} = 88 + 110 + 40$$

$$= \underline{238 \text{ m}^2}$$

Cylinders: $r =$

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

$$A = 2\pi(1.5)^2 + 2\pi(1.5)(9)$$

$$A = 2(3.14)(2.25) + 2(3.14)(1.5)(9)$$

$$A = 14.13 + 84.78$$

$$A = 98.91 \text{ m}^2$$

$$A = 98.91 \times 2$$

$$A = \underline{197.82 \text{ m}^2}$$

Overlap:

$$A = \pi r^2$$

$$A = (3.14)(1.5)^2$$

$$A = 7.065 \text{ m}^2$$

$$A = 7.065 \text{ m}^2 \times 2$$

$$A = 14.13 \text{ m}^2$$

$$A = \pi r^2$$

$$A = (3.14)(1.5)^2$$

$$A = 7.065 \text{ m}^2$$

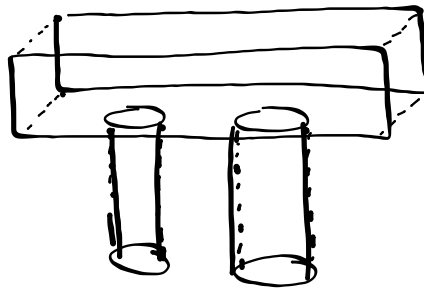
$$A = 7.065 \text{ m}^2 \times 2$$

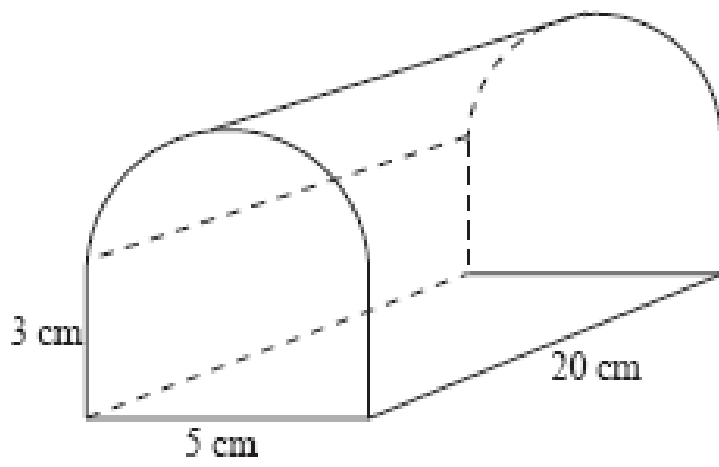
$$A = 14.13 \text{ m}^2$$

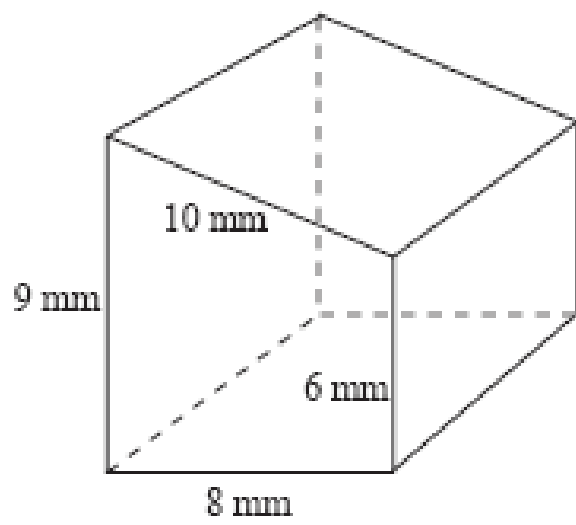
$$\text{Overlap} = 14.13 + 14.13$$

$$= \underline{28.26 \text{ m}^2}$$

$$\text{Total Area} = 238 + 197.82 + 28.26$$







The diagram shows the cross-section of a pipe of length 50 cm.
The inner diameter of the pipe is 20 cm and the outer diameter is 30 cm.

