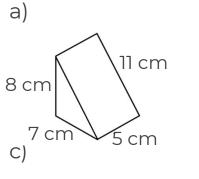
# Finding the Surface Area of Triangular Prisms

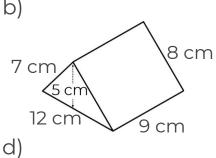
Maths

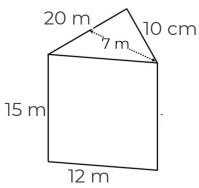
Miss Davies

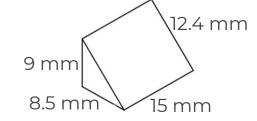


1. Calculate the surface area.

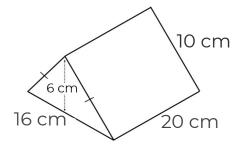








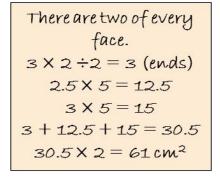
- 2. Calculate the surface area of an equilateral triangular prism.
- The cross section has a base of 6 cm and a height of 5 cm. The prism has a depth of 8 cm.
- 3. Calculate the surface area of the isosceles triangular prism.

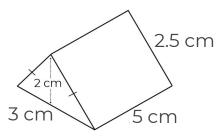


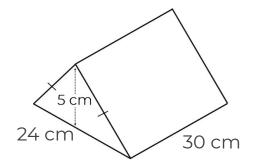


4. Rory is finding the surface area of an isosceles triangular prism.

5. Find the surface area of the isosceles triangular prism.







Rory is wrong.

What mistake has he made?

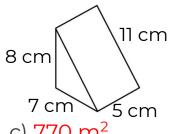


# **Answers**

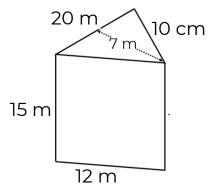


1. Calculate the surface area.

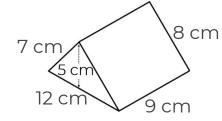
a)  $186 \text{ cm}^2$ 



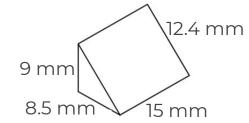
c)  $770 \text{ m}^2$ 



b)  $303 \text{ cm}^2$ 



d) 525 mm<sup>2</sup>

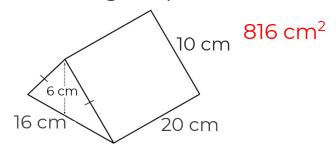


2. Calculate the surface area of an equilateral triangular prism.

The cross section has a base of 6 cm and a height of 5 cm. The prism has a depth of 8 cm.

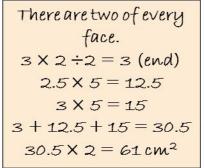
#### $174 \text{ cm}^2$

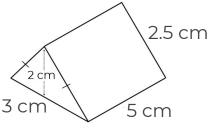
3. Calculate the surface area of the isosceles triangular prism.





4. Rory is finding the surface area of an isosceles triangular prism.





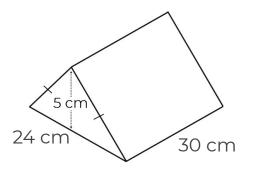
Rory is wrong.

What mistake has he made?

The base (15cm<sup>2</sup>) only appears once.

The correct answer is 46 cm<sup>2</sup>.

5. Find the surface area of the isosceles triangular prism.



1620 cm<sup>2</sup>

