

8J Math

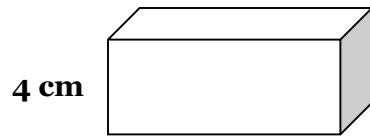
Good morning 8J,

We are continuing to work on the Measuring Prisms and Cylinder unit this week. I have attached practice questions for all 3 prisms we have worked on finding their Surface Area. You can also go onto the [ixl.com](https://www.ixl.com) site for practice of Surface Area questions. Remember that you received a parent letter recently with your username and password for IXL.

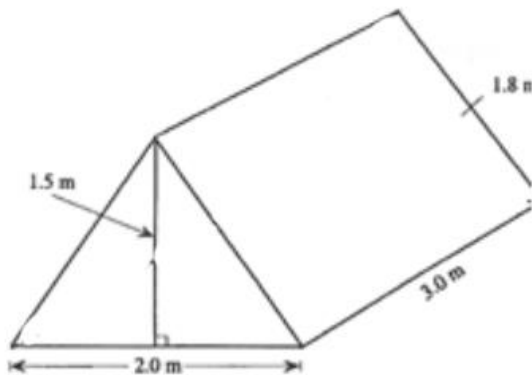
Mr. Sprague

Surface Area of Prisms

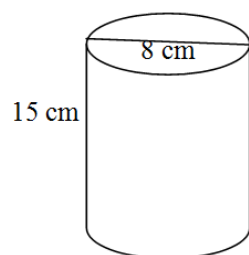
- 1) A rectangular prism has the following dimensions. What is the surface area of the prism? Show how you got your answer. Do not forget the units.



- 2) Find the total Surface Area of the Triangular Prism below. It is a tent (Include the Floor) Show your work. Formula sheet is provided below.



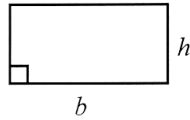
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- 3) Find the Surface Area of the Cylinder below. The Formula Sheet is provided below to use to find the area of a circle and the circumference.



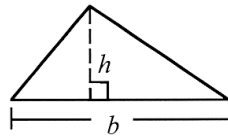
Middle Level Mathematics

Formula Sheet

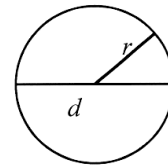
(The value for π is 3.14159...)



Area $A = bh$
 Perimeter $P = 2b + 2h$



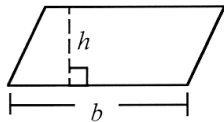
Area $A = \frac{1}{2}bh$ or $\frac{bh}{2}$



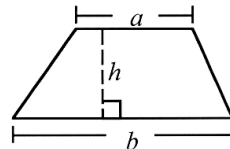
Area $A = \pi r^2$
 Circumference

$C = \pi d$

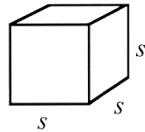
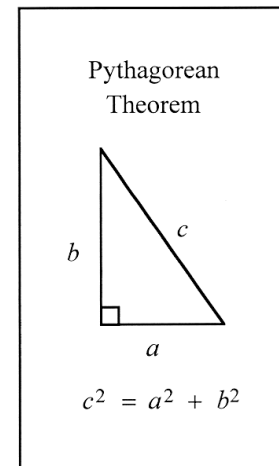
$C = 2\pi r$



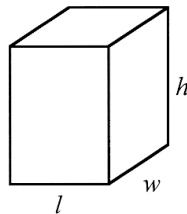
Area $A = bh$



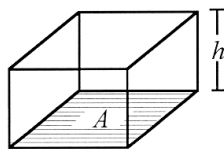
Area $A = \frac{1}{2}(a + b)h$
 or $A = \frac{(a + b)h}{2}$



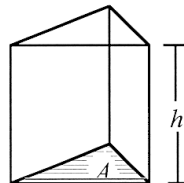
Volume $V = s^3$
 Surface Area = $6s^2$



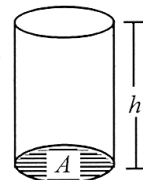
Volume $V = lwh$
 Surface Area = $2lw + 2wh + 2lh$



Volume $V = Ah$



Volume $V = Ah$



Volume $V = Ah$