

# Explain your solution

## Standards

### Content

Students will be able to...

- Find the surface area and volume of three-dimensional figures
- Apply mathematical knowledge to solve problems

### Process

Students will be able to...

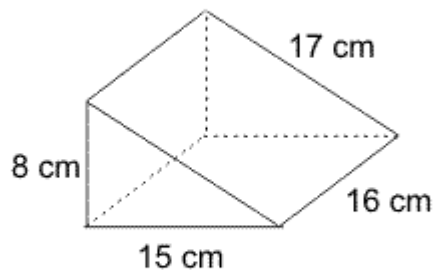
- Explain their reasoning
- Organize their work
- Demonstrate effective writing skills

## Task Description and Criteria

One of the most important skills you can develop in Geometry and for all math classes is being able to explain your reasoning. Today, you are going to solve the following surface area problem and explain your reasoning for each of the steps in your solution. You must organize your work in a neat, step by step process, and explain in words clearly what you did and why.

Problem:

Find the Surface Area of the geometrical solid.



Your grade will be based on the following criteria:

- ❖ Your solution must be correct
- ❖ Your process must be correct (used correct Surface Area formula)
- ❖ Your explanation must be clear (steps are easy to follow, reasoning makes sense)
- ❖ Writing Quality (spelling, grammar, legible)

### Rubric

Criteria	Bad (0 pts)	Good (2 pts)
Solution is Correct	No	Yes
Correct Formula is Used	No	Yes
Explanation is Clear	No explanation given or reasoning does not make sense	Yes, steps are in order, easy to follow and reasoning makes sense
Writing Quality	No, writing is illegible with many spelling and grammar errors	Yes, writing is legible with little to no spelling and grammar errors

TOTAL: / 8 points