G8: Solids Name:_____

Types of solids Date:_____ Period:_____

oday we're going to review the types of solids we can find the **surface area** and **volume** of.

First, let's define some terms:

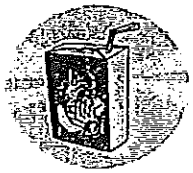
A solid is_____.

Surface area is _____.

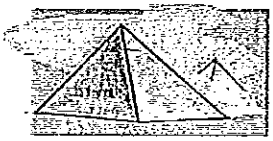
Volume is _____.

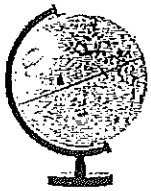
Use the formula sheet to answer the following questions.

Name the solid that best describes each picture.

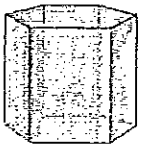
1. 

2. 

3. 

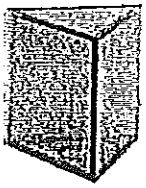
4. 

5. 

6. 

7. 

8. 

9. 

Tell whether each statement is true or false. If false, explain why.

10. A cone has two bases.

11. A cylinder is more like a prism than a pyramid.

12. A prism has two bases that are not congruent.

13. The faces of a pyramid are rectangles.

14. The faces of a prism are rectangles.

15. A cone has one vertex.

16. A pyramid has one vertex.

17. All prisms have 12 vertices.

18. A prism has one base.

19. A pyramid is named by the shape of its lateral faces.

Use the prompts below to organize your work to calculate the surface area of your solids.

First solid:

Name solid: _____

How many rectangular faces does this solid have? _____

How many triangular faces does this solid have? _____

Does this solid have any other faces? _____

If yes, what type of shapes are they? _____

Draw out the different faces / bases of your solid and then find the area of each shape in the space below.

Last step, add up all the individual areas to find total surface area!

Total surface area = _____

Use the tables below to organize your work to calculate the surface area of your solids.

Second solid:

Name solid: _____

How many rectangular faces does this solid have? _____

How many triangular faces does this solid have? _____

Does this solid have any other faces? _____

If yes, what type of shapes are they? _____

Draw out the different faces / bases of your solid and then find the area of each shape in the space below.

Last step, add up all the individual areas to find total surface area!

Total surface area = _____