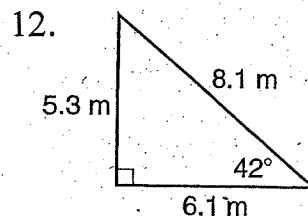
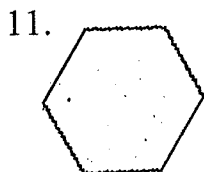
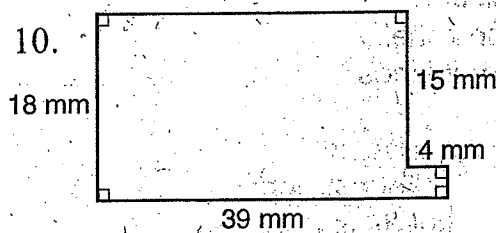
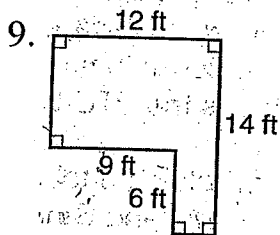


Words you may need.

surface area	volume	perimeter
area	cubed	squared

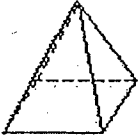
1. If I need to know how much water a fish tank will hold, I need to know?
2. If I am designing a cereal box and I need to know how much space I need to cover what measurement do I need?
3. I am designing a poster to run for student council and I want to know how much licorice I need to be able to put a boarder around it. What measurement do I want?
4. If I want to paint a wall, what measurement would I need to be able to know how much paint I need?
5. I want to know how much carpet I need for my living room what measurement do I need to buy carpet?
6. What does volume measure? And how is it measure?
7. What does perimeter measure?
8. What does surface area and area measure? And what is it measured in?

Find the Perimeter - *Show your work!*



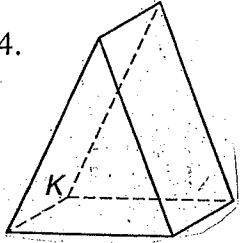
How many faces, edges, and vertices do the following objects have?

13.



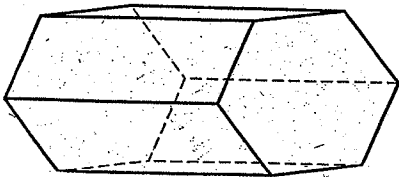
\_\_\_\_\_ faces \_\_\_\_\_ edges \_\_\_\_\_ vertices

14.



\_\_\_\_\_ faces \_\_\_\_\_ edges \_\_\_\_\_ vertices

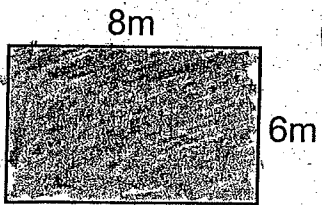
15.



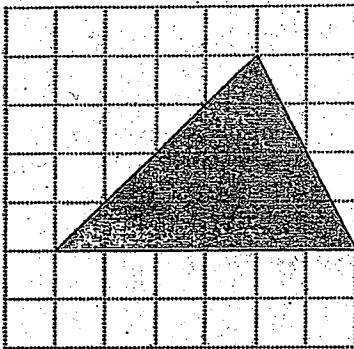
\_\_\_\_\_ faces \_\_\_\_\_ edges \_\_\_\_\_ vertices

Find the area of the shaded portion of these shapes. **SHOW YOUR WORK!**

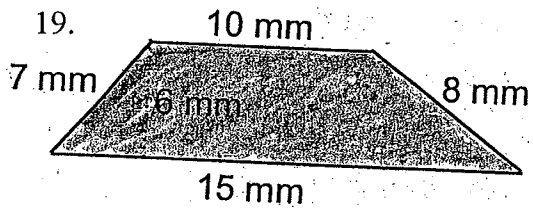
16.



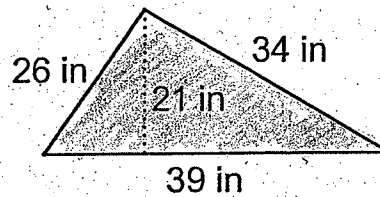
17.



19.



20.

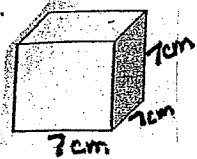


21. A toy manufacturer ships his toys in cardboard shipping boxes shown at the right. If he send camera's that are in a box that is a perfect 6 inch cube, how many cameras can he ship in one of his shipping boxes? SHOW YOUR WORK

22. WalMart is getting the trucks loaded with Christmas items to ship out to their stores around the country. There standard shipping box is the same size as the manufacturer's above. If there trucks are 30 ft long 12 ft wide and 10 ft tall, how many shipping boxes can they fit on one truck? SHOW YOUR WORK

Find the surface area and volume for each solid/net. SHOW YOUR WORK!

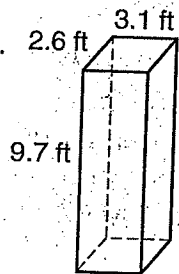
23.



Surface Area:

Volume:

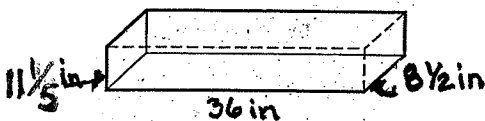
24.



Surface Area:

Volume:

25.

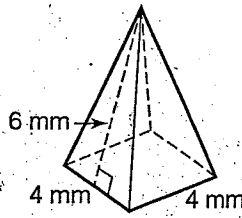


Surface Area:

Volume:

## Bonus Problems – Try Them – Show Your Work!!!

1. Find the surface area of this solid



2. Margaret wants to cover a footrest in the shape of a rectangular prism with cotton fabric. The footrest is 18 in X 12 in X 10 in. She has  $1 \text{ yd}^2$  of fabric. Can she completely cover the footrest? EXPLAIN using numbers and words in complete sentences.