

1. What is a prism?

2. Draw a prism and label its:

- a) Bases
- b) Lateral Faces

3. Why is a Chicken Noodle Soup can NOT a prism?

4. What is the difference between a Template and a Net?

5. Draw a net of the following shapes:

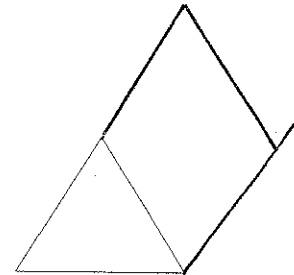
a)



b)

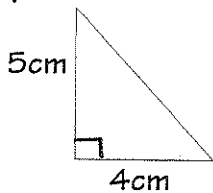


d)

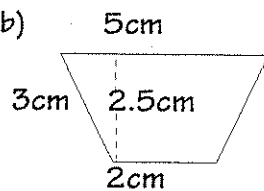


6. Find the area of the following shapes:

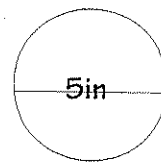
a)



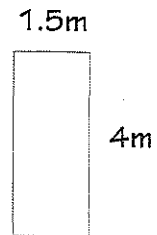
b)



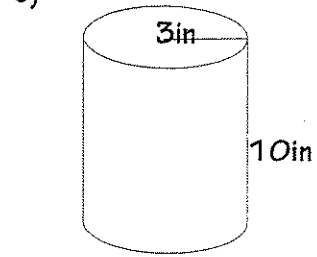
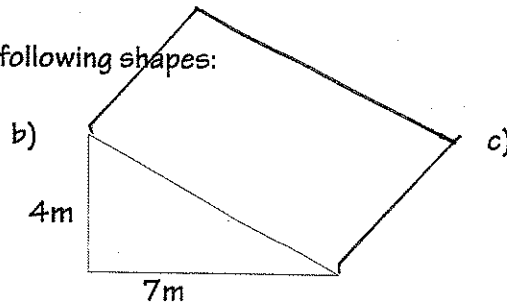
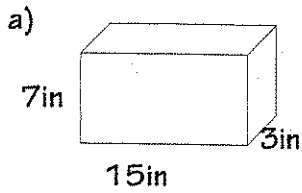
c)



d)

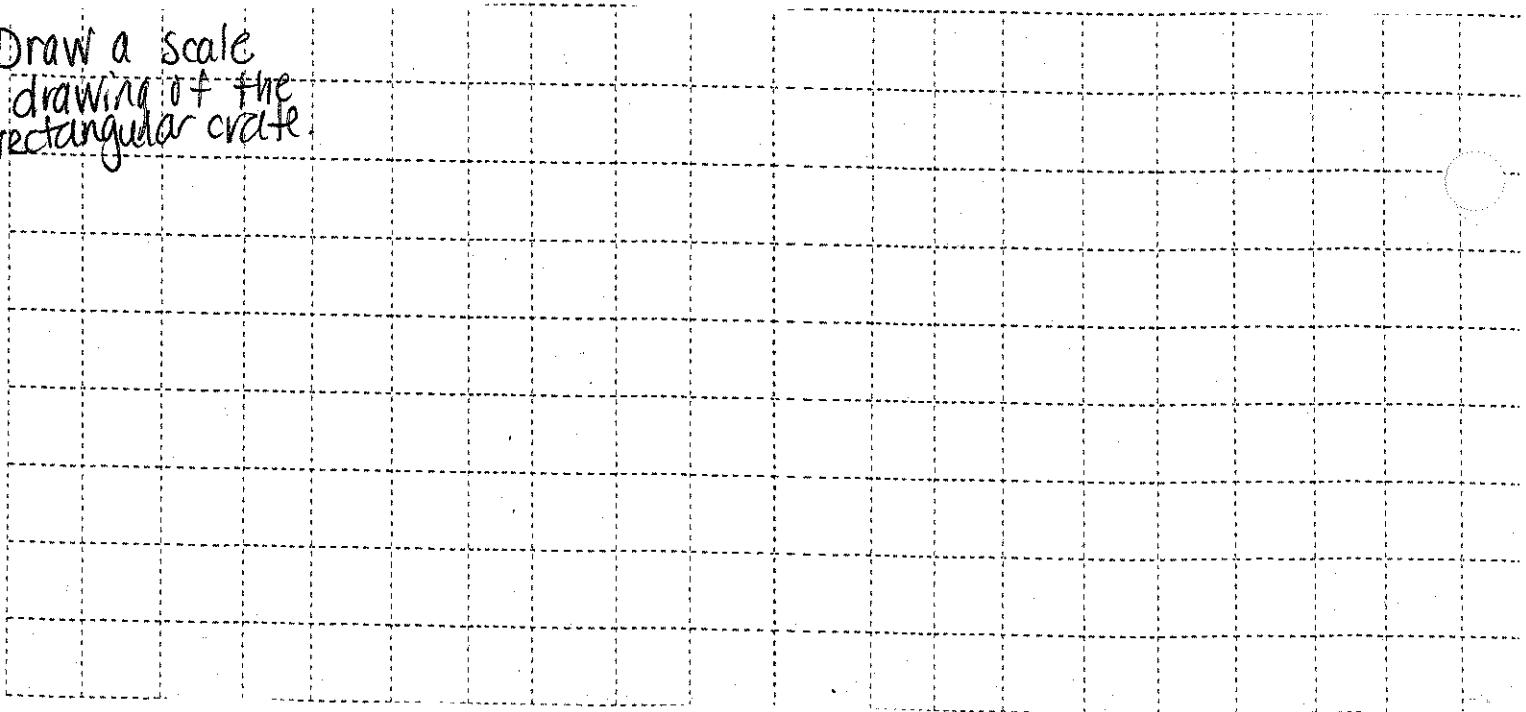


7. Find the surface area of the following shapes:



8. A packaging company has received a contract to make cardboard crates for refrigerators. The crates are rectangular prisms that measure 5m (in length), 4m (in width) and 2m (in height). Since the company pays 20cents per square meter of cardboard, it wants to minimize the amount of waste. Imagine that you work as an engineer for this company, answer the following:

a) Draw a scale drawing of the rectangular crate



- b) What are the dimensions of the smallest rectangle that will enclose the net?
- c) What is the percentage of waste cardboard for each crate produced? (Show All Work!)
- d) What would be the cost of the wasted cardboard?