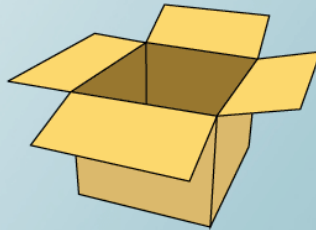


Thinking Outside the Box

Connect all of the dots in the picture below using only 4 lines.



Thinking Outside the Box



According to Answers.com "thinking outside the box" means breaking away from traditional or conventional thought to develop a unique, superior solution to a difficult problem.

Thinking Outside the Box

Directions:

You have been given a box. Your task is to do the following:

1. Calculate the total area of cardboard used to make the box.
2. Calculate the dimensions (length and width) of the piece of cardboard from which the box could be cut.
3. Calculate the amount of waste that would result from such a cutting pattern
4. Calculate the volume of the box



Thinking Outside the Box

5. Using the same dimensions of cardboard calculated in #2, create a box that has a better design. What do you consider a better design? Include all dimensions, areas, and the volume of the box. Present your design to the class.
6. What industries are concerned with boxes and packaging? Choose one and research how packaging design impacts their industry. Explain in your presentation to the class how this activity relates to a real-world situation.

