

Fun with Food

BROAD AREAS OF LEARNING: Health and Well-Being / Personal and Career Planning

CROSS-CURRICULAR COMPETENCIES:

- Solves problems
 - Exercises critical judgment
 - Cooperates with others
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Application Question

- **To develop Competency 2:** Uses mathematical reasoning
- **To develop Competency 3:** Communicates by using mathematical language

Lunch Containers

You are the owner of a local delicatessen. At lunch time, you prepare boxed lunches for take-out. Today there are three choices being offered:

- turkey and cheese on whole-wheat bread with yogurt,
- chicken salad on a bagel with chips,
- a BLT, or bacon lettuce tomato, served with broccoli and cheese soup.

Each option will be packaged in a container of a different shape. Use the criteria given below and the nets shown in Appendix A to decide which 3-dimensional shape would fit the packaging criteria for each lunch selection. Then draw a different net for each container that produces the same 3-dimensional shape as the given net.

? Which 3-dimensional shape would fit the packaging criteria for each lunch selection?

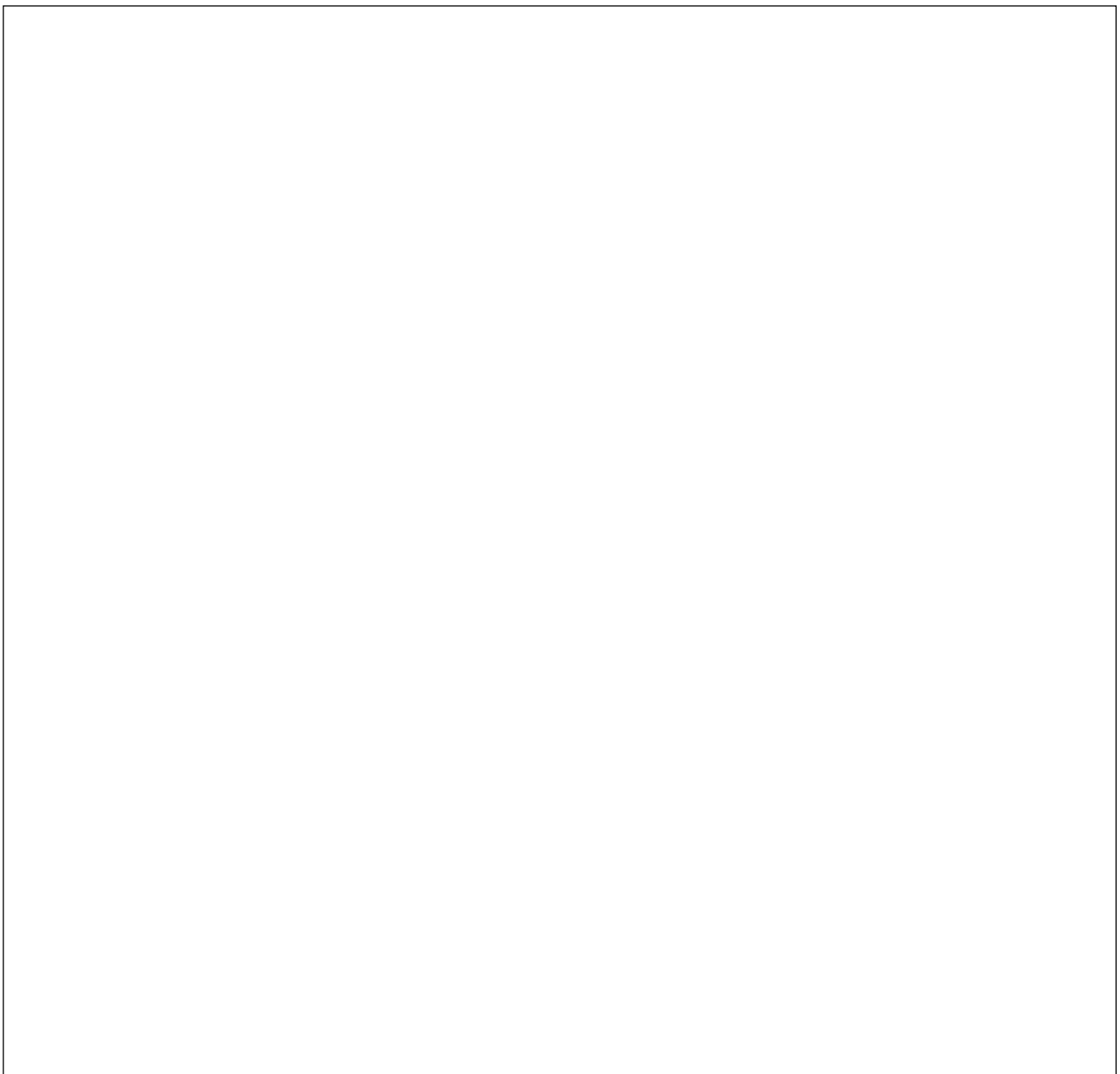
Criteria for the lunch packaging

- The container for the BLT with broccoli and cheese soup has a surface area of 1344 cm^2 .
- The container for the chicken salad lunch has five faces.
- The container for the turkey and cheese sandwich lunch has a surface area of 736 cm^2 .

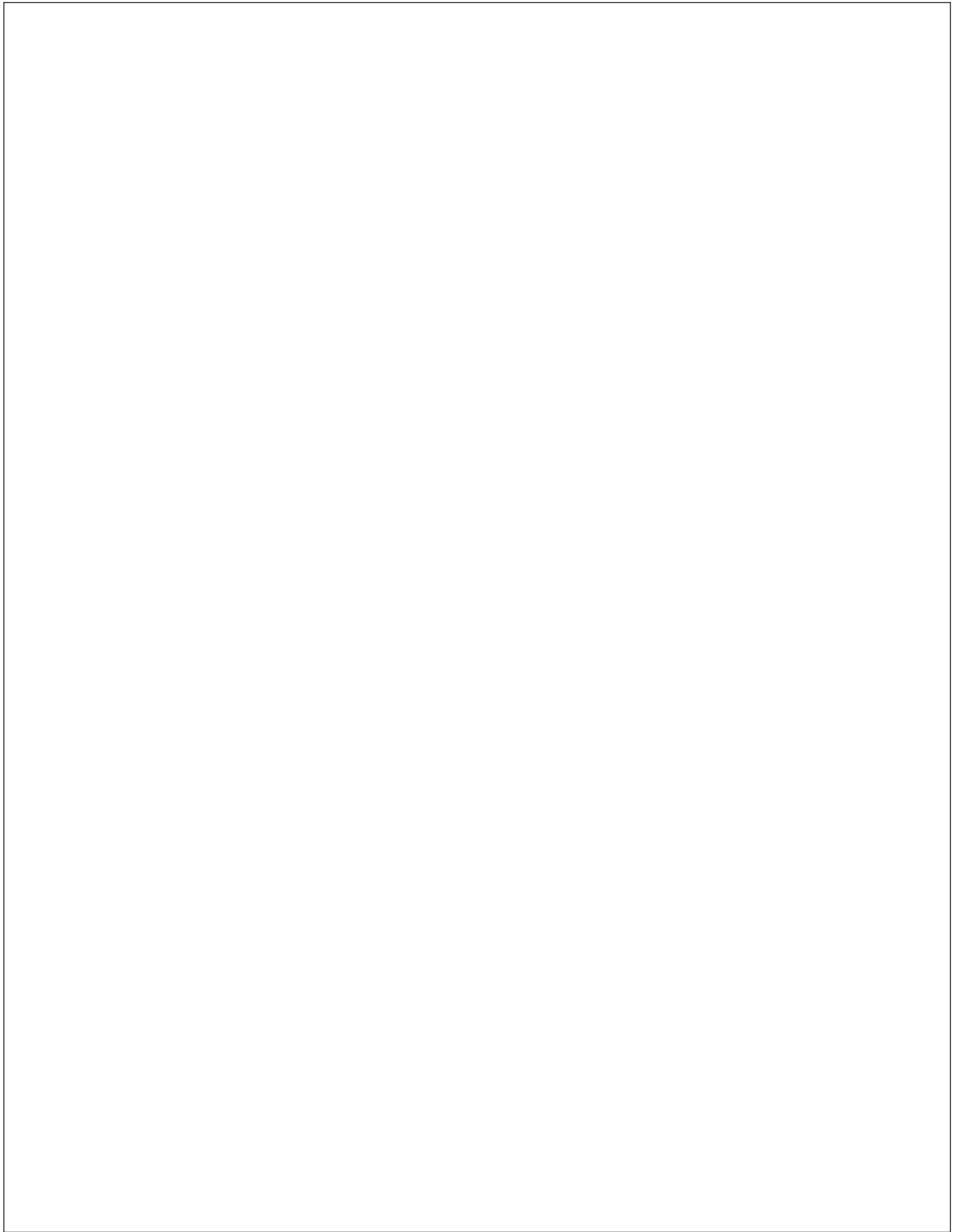
Name: _____ Date: _____

- A.** Examine the drawings in Appendix A and determine which net: a, b, or c, represents the packaging of each lunch selection.

For each of the given nets, draw a different net that would produce the same 3-dimensional shape.



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