SPATIAL REASONING OVERVIEW

Spatial Learning for All

Presented by Steve Pauls and Aileen Rizo

Recent studies have shown that spatial reasoning is a key component of early mathematical development, yet is underemphasized in most early childhood classrooms. Early spatial reasoning experiences are positively linked to improved school readiness and future success in STEM-related subjects. Through the use of spatial experiences, participants in this interactive session will explore ways to understand what spatial reasoning is and how children can engage in spatial reasoning through play.

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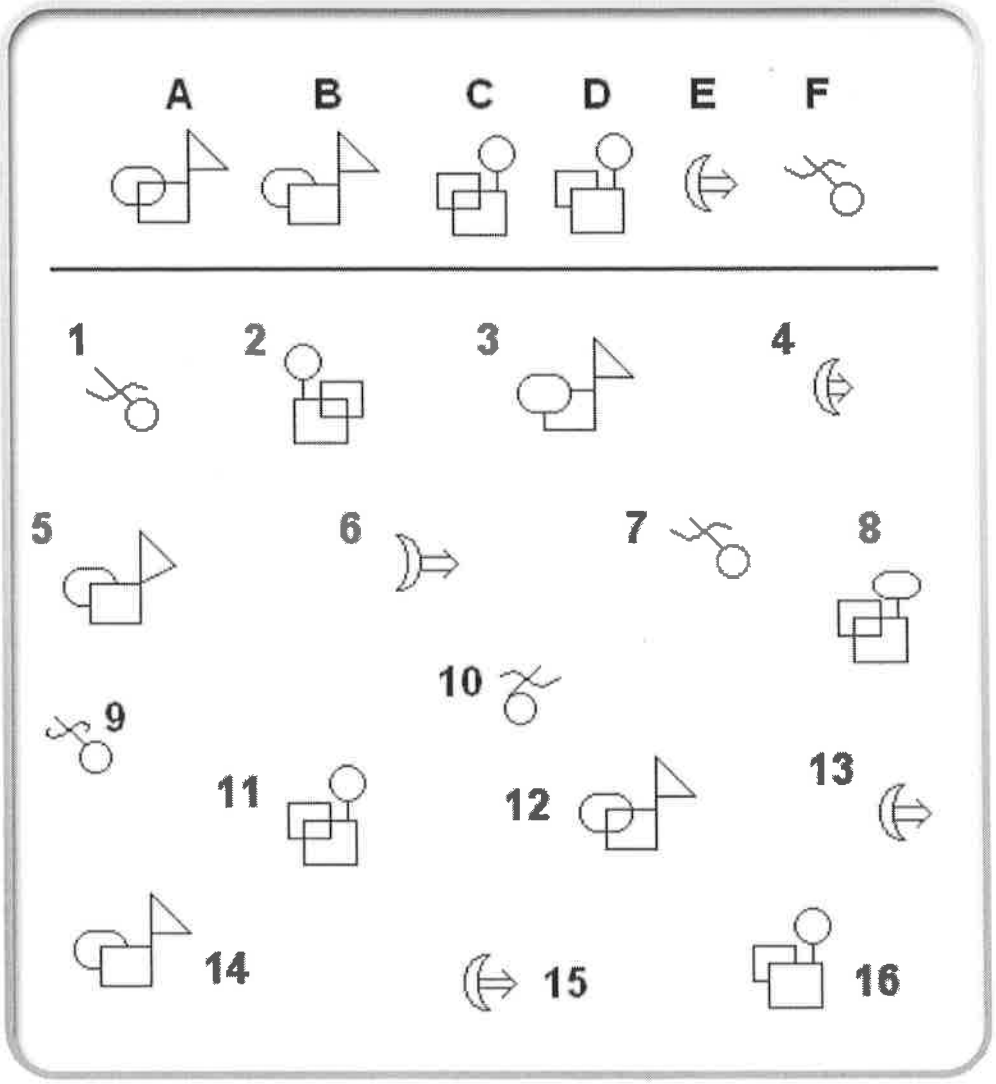
Mental Trip

After spending a few moments thinking about how you traveled from our opening session to this room, carefully write or sketch out the directions in the space provided below.

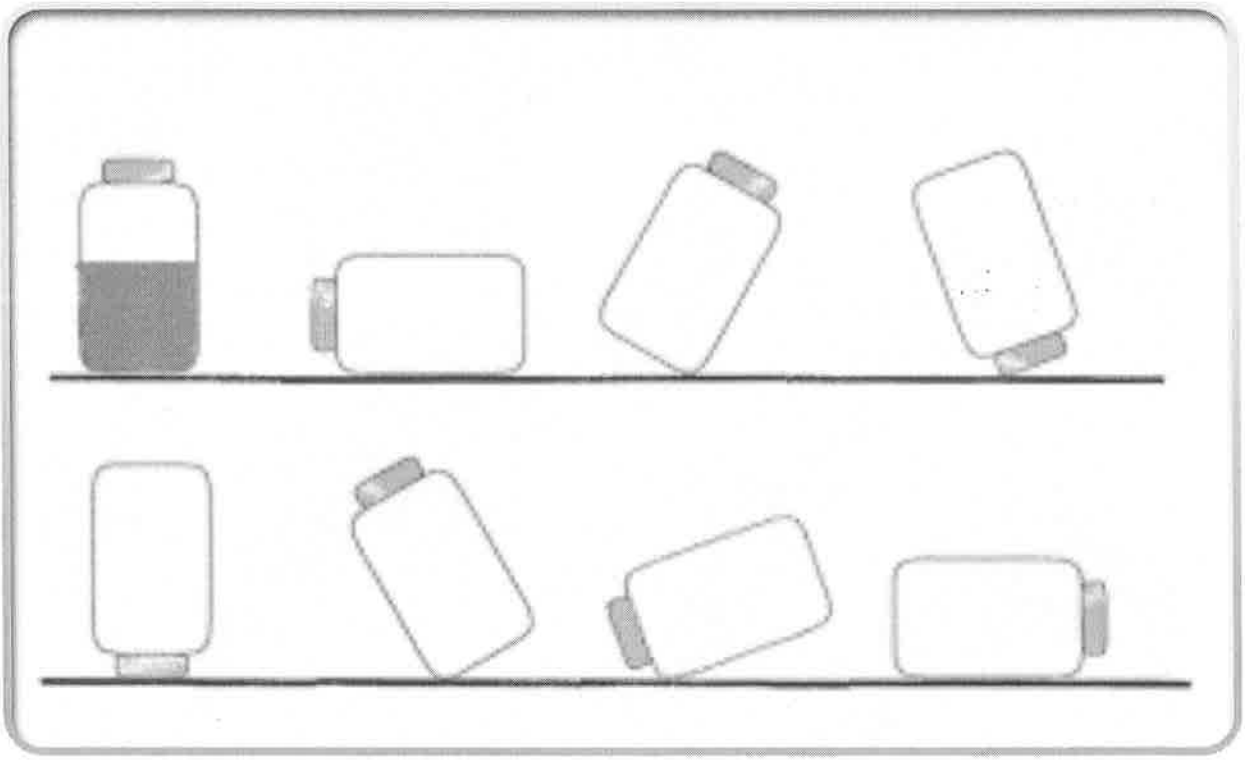
Comparing Objects

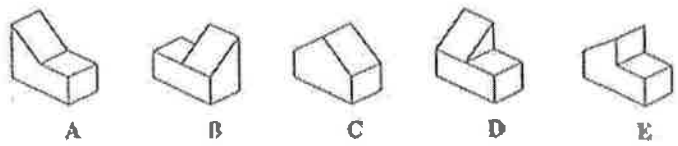
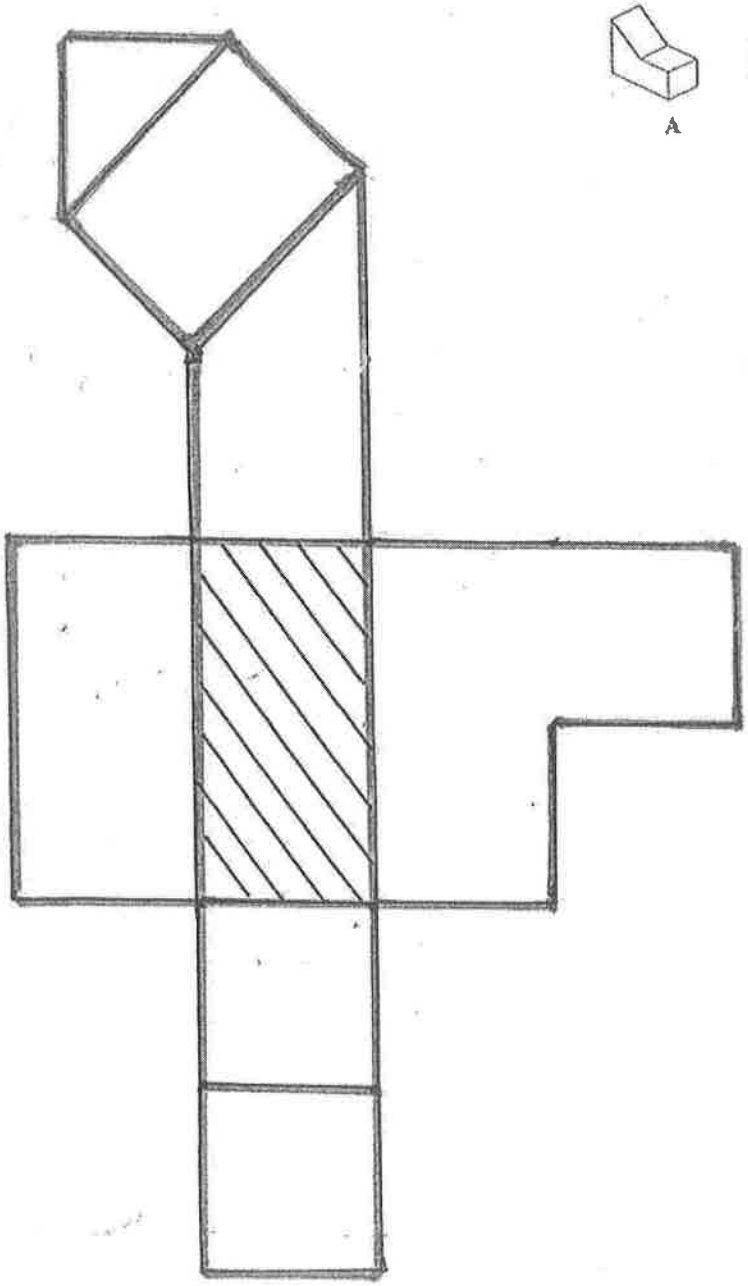
Instructions: Compare the images (A-F) with the images below the line and find a match for each.



Piaget's Water level Task

Instructions: Draw the water level in each empty jar that you think represents the same volume of water that is shown in the jar in the upper left-hand corner.



Mental Folding Exercise

Examine the below figure closely. Which of the below figures is a match to the unfolded two-dimensional shape you see below? Once you have chosen an answer cut out the large image and fold it into a 3D shape to see of you are correct.