

Level E - Form 1 - Applied Mathematics: Geometry and Spatial Sense

Sample Question

Which figure is a triangle?

A



B



C

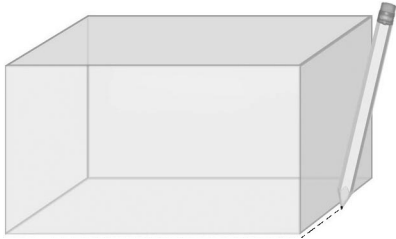


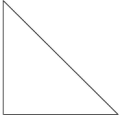

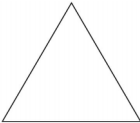
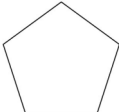
D



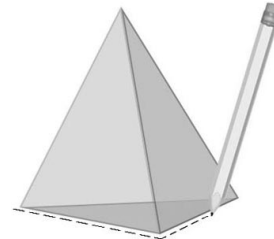
Level E - Form 1 - Applied Mathematics: Geometry and Spatial Sense

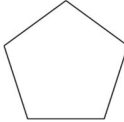

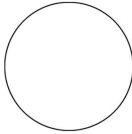

1. Which of these figures would you draw if you traced around the bottom of the box?



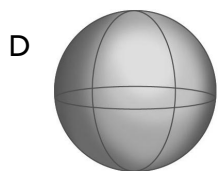
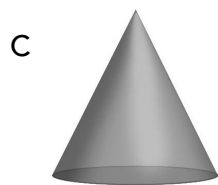
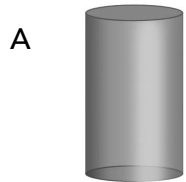
- A 
- B 
- C 
- D 

2. Which of these figures would you draw if you traced around the bottom of the pyramid?

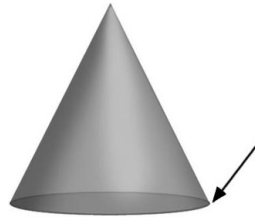


- F 
- G 
- H 
- J 

3. If you traced around the bottoms of these objects, for which one would you draw a rectangle?

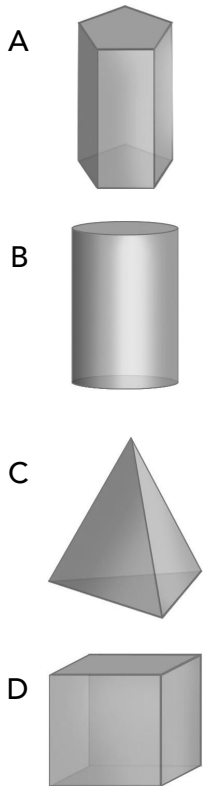


4. Which of these best describes the shape of the bottom of the figure shown?

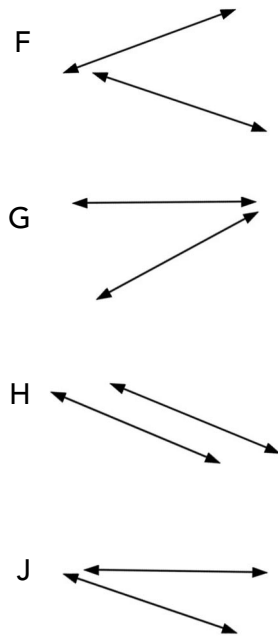


- F circle
- G triangle
- H square
- J rectangle

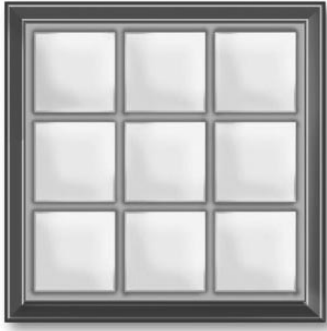
5. If you traced around the bottoms of these objects, for which one would you draw a shape with 5 sides?



6. Which pair of lines will never cross?



7. Mr. Ozuki put a new window in his office. What is the shape of each pane in the window?



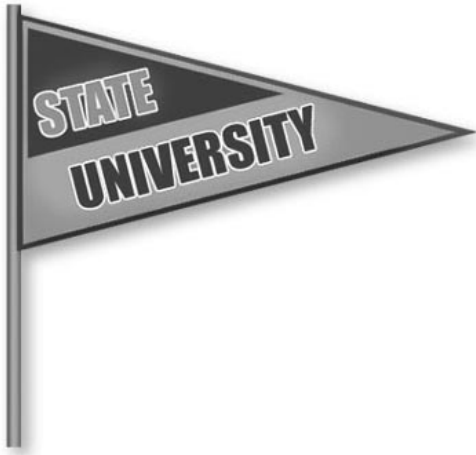
- A triangle
- B rectangle
- C square
- D circle

8. What shape best describes this thermometer?



- F circle
- G square
- H rectangle
- J triangle

9. What shape best describes this pennant?



- A hexagon
- B rectangle
- C octagon
- D triangle

10. How many sides does the stop sign have?



- F 10 sides
- G 8 sides
- H 6 sides
- J 4 sides

11. Which figure is missing from the pattern in the box?



- A
- B
- C
- D

12. The picture shows that a piece was cut out of the folded paper. Then the cut-out piece was unfolded. Which of these shows the cut-out piece?

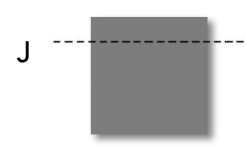
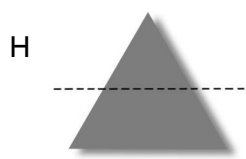
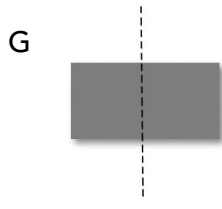
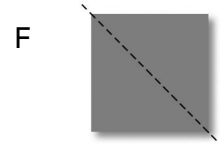


- F
- G
- H
- J

13. Each box shows a repeating pattern of shapes. Which pattern needs a star in the blank space?







14. For which of these figures will the outside form a triangle when it is folded along the dashed line?

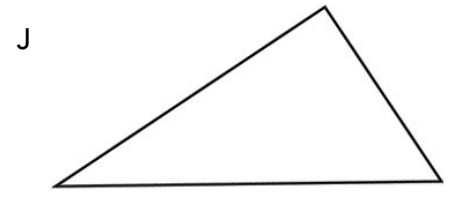
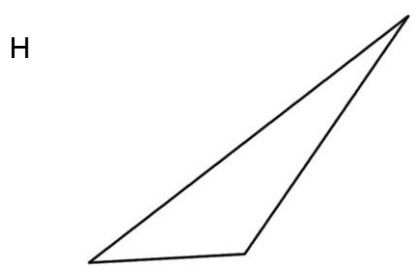
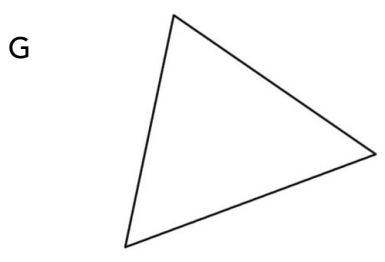
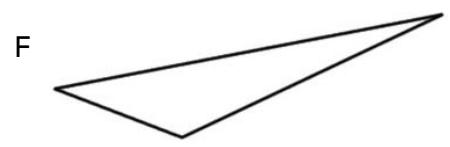
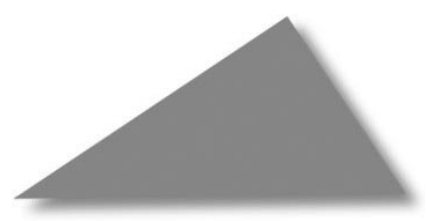


15. The picture shows that a piece was cut out of the folded paper. Then the cut-out piece was unfolded. Which of these shows the cut-out piece unfolded?

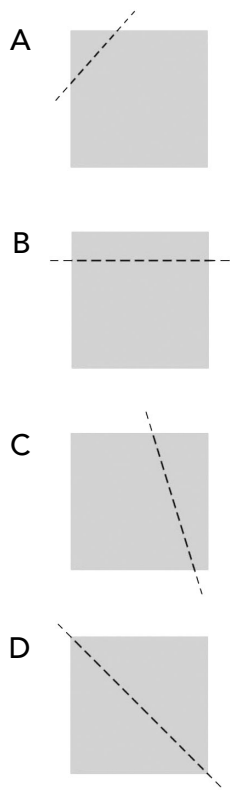


- A 
- B 
- C 
- D 

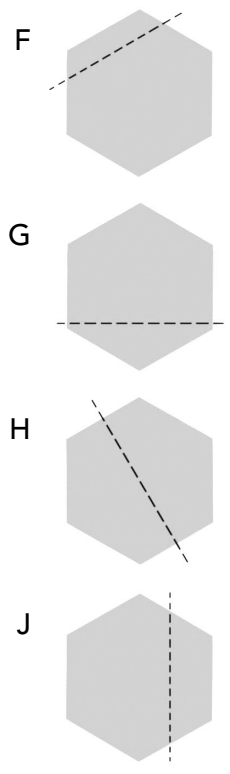
16. Which of these is the same size and shape as the solid figure?



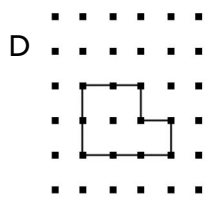
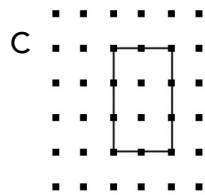
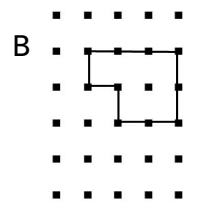
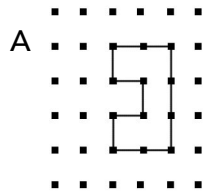
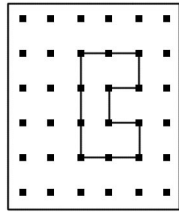
17. Which of these figures can be folded along the dashed line so that the parts match?



18. Which of these figures can be folded along the dashed line so that the parts match?



19. Which of these figures is the same size and shape as the figure in the box?



20. Which of these figures can be folded along the dashed line so that the parts match?

