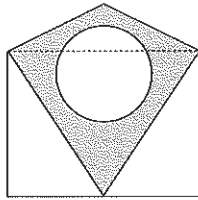# Geometry Skills Checkup

Circle the letter for the correct answer to each question.

Study the diagram below. Then do Numbers 1–6.
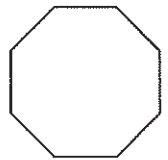

1. What shape is formed by the outline of this diagram?

   A a pentagon
   B an octagon
   C a hexagon
   D a quadrilateral

2. Which parts of this diagram, if any, are congruent?

   F the shaded shape and the outside edges
   G the circle and the shaded shape
   H the two unshaded triangles
   J No two of the shapes are congruent.

3. What types of triangles are shown in the bottom corners of the diagram?

   A equilateral
   B isosceles
   C right
   D obtuse

4. What type of angle is shown at the very top of the diagram?

   F an acute angle
   G a right angle
   H a square corner
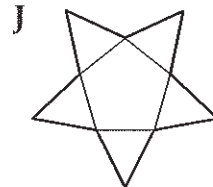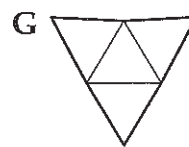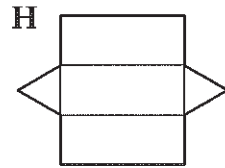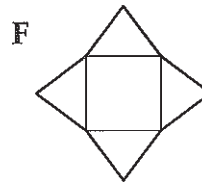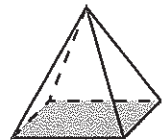   J an obtuse angle

5. Which line segments in the diagram, if any, are parallel?

   A the bottom and the right side
   B the top and the left side
   C the right and left sides
   D There are no parallel line segments in the diagram.

6. Which type of polygon is formed by the outline of the shaded area?

   F a regular polygon
   G a quadrilateral
   H a parallelogram
   J all of the above

7. How many different diagonals can be drawn to divide this figure in half?
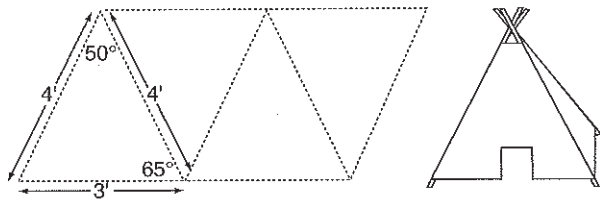
   A 2
   B 4
   C 6
   D 8

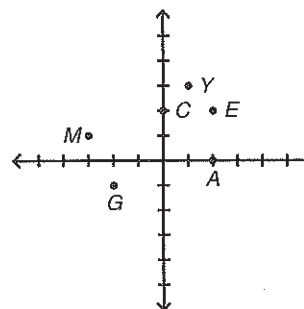8. Which pattern could be folded to make the figure shown at the right?

Geometry Skills Checkup (continued)

The diagram below shows 4 fabric pieces for the tent shown at the right. The sides of the tent are congruent triangles. Study the diagram. Then do Numbers 9–13.
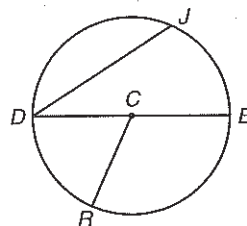
9. What type of line segments are formed by the tent poles?

   F parallel
   G perpendicular
   H intersecting
   J none of the above

10. What kind of triangle is formed by each side of the tent?

    A equilateral   C right
    B isosceles   D obtuse

11. What is the measure of the unmarked angle in the first triangle?

    F 50°   H 60°
    G 100°   J 65°

12. What shape is the region on the floor that this tent covers?

    A square   C rectangle
    B triangle   D circle

13. Each triangle in the diagram contains what type(s) of angles?

    F obtuse only
    G obtuse and acute
    H acute and right
    J acute only

Use the coordinate grid below to answer Numbers 14 and 15.

14. Which ordered pair names the location of Point A?

    A (2, 2)   C (0, 2)
    B (-2, 2)   D (2, 0)

15. Which point is located at (1, 3)?

    F Point C   H Point Y
    G Point M   J Point G

16. This line segment names a diameter of the circle.

    A $\overline{CR}$ C $\overline{DB}$
    B $\overline{BJ}$ D $\overline{DC}$

17. Which type of transformation is shown in the diagram?

    F reflection
    G rotation
    H translation
    J none of the above