Draw each figure.

- 1) Cylinder
- 2) Cone
- 3) Prism with a hexagonal base
- 4) Sphere
- 5) Pyramid with a heptagonal base
- 6) Hemisphere

- A rectangular solid 2 m by 3 m by 4 m, sitting on its biggest face.
- A rectangular solid 3 inches by 4 inches by 5 inches, resting on its smallest face.
- 9) The photo shows a prism-shaped building with a pyramid roof and a cylindrical porch. Draw a cylindrical building with a cone roof and a prism-shaped porch.



A police station, or koban, in Tokyo, Japan

Complete.

10) Which net(s) will fold to make a cube?







Match the net with its geometric solid.



Complete.

17) If the kite *DIAN* were rotated 90° clockwise about the origin, to what location would point *A* be relocated?



18) Midway through a 2000-meter race, a photo is taken of five runners. It shows Meg 20 meters behind Edith. Edith is 50 meters ahead of Wanda, who is 20 meters behind Olivia. Olivia is 40 meters behind Nadine. Who is ahead?

19) Beth Mack and her dog Trouble are exploring in the woods east of Birnam Woods Road, which runs north-south. They begin walking in a zigzag pattern: 1 km south, 1 km west, 1 km south, 2 km west, 1 km south, 3 km west, and so on. They walk at the rate of 4 km/h. If they started 15 km east of Birnam Woods Road at 3:00P.M., and the sun sets at 7:30P.M., will they reach Birnam Woods Road before sunset?



20) If trapezoid *ABCD* were rotated 90° counterclockwise about (0,0), to what (x, y) location would points *A*, *B*, *C*, and *D* be relocated?



21) If $\triangle CYN$ were reflected across the *y*-axis, to what location would points *C*, *Y*, and *N* be relocated?



22) What was the ordered pair rule used to relocated the four vertices of ABCD to A'B'C'D'?



23) Which lines are perpendicular? Which lines are parallel?



Sketch the three-dimensional figure formed by folding each net into a solid. Name the solid.

dimensional solid formed by 24) spinning the figure on the Find the lengths of x and y. (Every wire between your fingers is angle on each block is a right angle.) called a solid of revolution. Sketch the solid of revolution 27) 45 formed by each two-20 dimensional figure. 17 13 29) y 25). 45 18 28) 30) 3 26) 8 2 7 2 x Write the words or symbols that make each statement true. 31) The three undefined terms of geometry are _____, ____, and 32) "Line *AB*" may be written using a symbol as 33) "Arc *AB*" may be written using a symbol as _____. 34) The point where the two sides of an angle meet is the ______ of the angle. 35) "Ray *AB*" may be written using a symbol as . 36) "Line AB is parallel to segment CD" is written in symbolic form as 37) The geometry tool you use to measure an angle is a . 38) "Angle *ABC*" is written in symbolic form as . 39) The sentence "Segment AB is perpendicular to line CD" is written in symbolic form as

Each figure represents a two-

dimensional figure with a

wire attached. The three-