Nets & Surface Area

Geometry & Shapes

Name: _____ Date: _____ Grade 6

1. Select all the units that can be used to describe surface area.

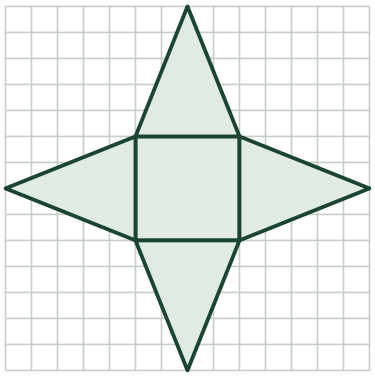
- ☐ **A.** Square inches
- ☐ **B.** Feet
- ☐ **C.** Centimeters
- ☐ **D.** Cubic meters
- ☐ **E.** Square yards
- ☐ **F.** Cubic inches

2. Select all the units that can be used to describe volume.

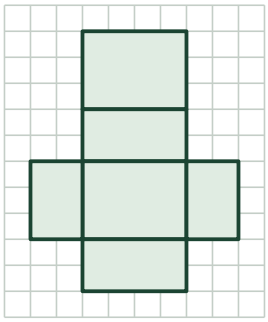
- ☐ **A.** Square inches
- ☐ **B.** Feet
- ☐ **C.** Centimeters
- ☐ **D.** Cubic meters
- ☐ **E.** Square yards
- ☐ **F.** Cubic inches

3. What is the difference between the units used to measure surface area and the units used to measure volume? Look back at Problems 1–2 if it is helpful.

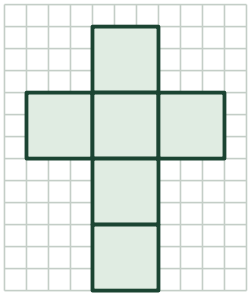
4. Here is a net. Each square on the grid has an area of 1 square unit. Determine the surface area of the polyhedron that could be created using this net.



5. Determine the surface area of the rectangular prism that could be created from this net. Each square on the grid has an area of 1 square unit.



6. Determine the surface area of the cube that would be formed by this net. Each square on the grid has an area of 1 square unit. Show or explain your thinking.



7. Here is a rectangular prism that is 5 cm long, 3 cm wide, and 2 cm tall.

a Use the grid to draw a net for the prism. The side of one grid square is 1 centimeter.



5 cm long • 3 cm wide • 2 cm tall

b Determine the surface area of the prism. _____