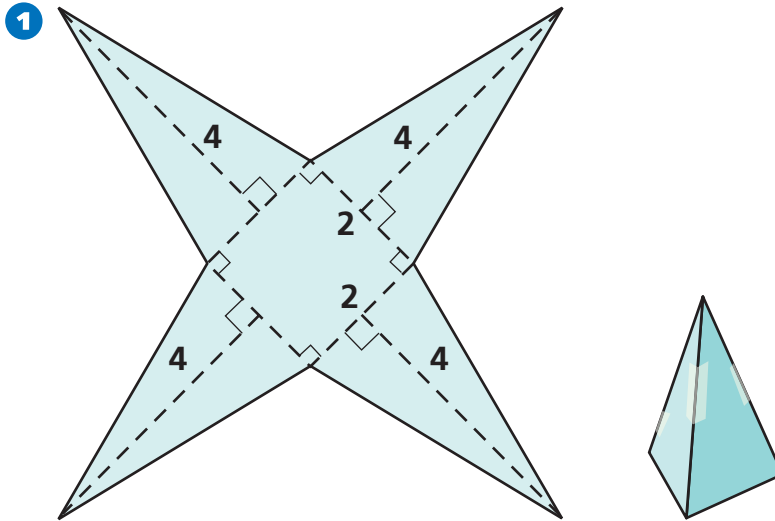


Surface Area of Polyhedra

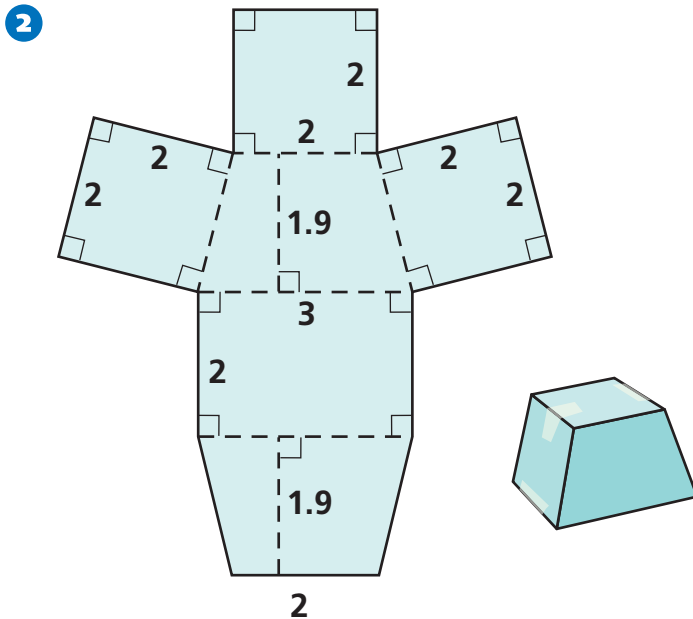
NCTM Standards 1, 3, 4, 6, 7, 8, 9, 10

Find the surface area of each polyhedron using the measurements (in inches) shown on the nets.



Surface area: _____ sq in.

Show your work.



Surface area: _____

Show your work.

Double the length of each dimension of each polygon. Record the area inside each polygon.

3

4

5 You know what happened to the dimensions in each case: they doubled. What happened to the area in each case?

6 Challenge What happens to the surface area of a polyhedron when you double each dimension of each face? Record the doubled dimensions and find both surface areas.

Surface area: _____

Surface area: _____

How do the two surface areas compare?
