

Connection: Distance/Area/Volume

Distance (length): number of segments* needed to connect one point to another.

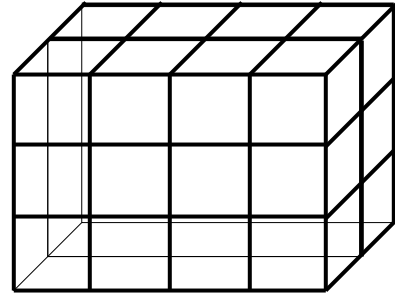
Perimeter: distance around a region

Area: number of squares* needed to cover a region or surface.

Surface Area: sum of face areas for a solid

Volume: number of cubes* needed to fill a space.

*of uniform size



Arc Length and Sector Area Connected

For a circle with radius 12, do the circle attribute schema.

For a sector of that circle made by a central angle of 200° ,

Arc Length

(length of crust of apple pie slice)

$$\frac{200^\circ}{360^\circ} \times \text{full perimeter}$$

equals what?

Sector Area

(Number of covering Hershey squares)

$$\frac{200^\circ}{360^\circ} \times \text{full area}$$

equals what?