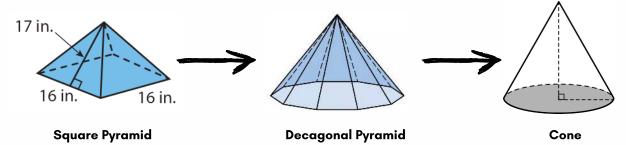
Surface Area-Cone

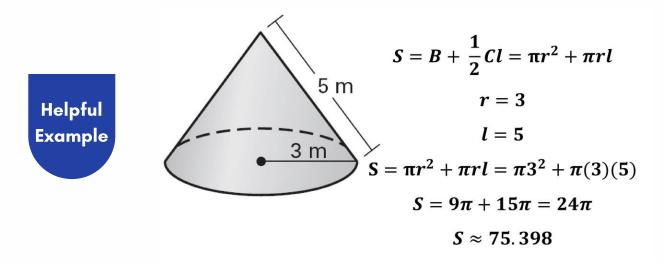
Concept

The surface area of a cone is the total area of its surface, the process of finding the surface area of a cone is similar to finding the surface area of a Pyramid. Think of a cone as a Pyramid with lots of sides creating lots of Triangles. See below1/2



Surface area of Square Pyramid = Area of base $+ 1/2 \times (Perimeter of base \times Height of triangle)$ Surface area of cone = Area of base $+ 1/2 \times (Circumference of base \times Height of Slant)$

The only difference is the base of each solid. One base is a square and the other is a circle. If you forgot, perimeter and circumference mean the same thing. They both mean the same distance around the outside of a shape.



Find the Surface Area of each cone.

- Find the surface of a cone with 12m diameter and slant height 5m
- 2. Find the surface of a cone with 10cm diameter and slant height 6cm.

