

Download Surface Area Of A Regular Cone

l is the slant height. Therefore, the surface area, call it SA is: $SA = s^2 + 2 \times s \times l$: Generally speaking, to find the surface area of any regular pyramid whose base is A, the perimeter is P, and the slant height is l, we use the following formula: Again A is the area of the base. Online calculator to calculate the surface area of geometric solids including a capsule, cone, frustum, cube, cylinder, hemisphere, pyramid, rectangular prism, sphere and spherical cap. * Units: Note that units are shown for convenience but do not affect the calculations. Find the lateral surface area of the given cone. Solution: Lateral surface area of the cone = ?r Step 1: Slant height of the cone: $l^2 = h^2 + r^2$ $l^2 = 7^2 + 5^2$ $l^2 = 49 + 25$ $l = 8.6$ Step 2: Lateral surface area: $LSA = \pi r l$ $LSA = 3.14 \times 7 \times 8.6$ $LSA = 189.03$ yd² So, the lateral surface area of the cone = 189.03 squared yard. The surface area of a cone is one of the most complicated and it is where the need for a calculator becomes more apparent. You need just two measurements: the diameter of the base and it's height, but the calculus is more involved than most of the other simple bodies.