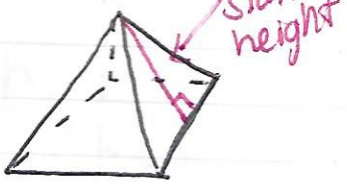
# 9.2 Surface Area of Pyramids

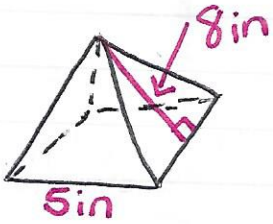
EQ: How can you find the surface area of a pyramid?

**Regular pyramid**: base is a regular polygon. The **lateral faces** are all **triangles**. The height of each triangle is the **slant height**.




**Formula**: area of base + area of lateral faces

## Example 1 Square pyramid




List

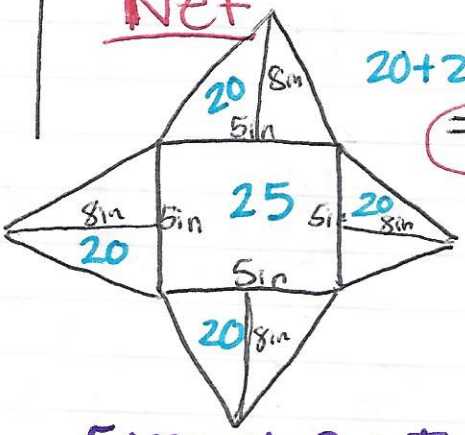
Base: $5 \times 5 = 25 in^2$

Lateral faces: (x4) $\frac{8 \times 5}{2} = \frac{40}{2} = 20$

$+ \quad 20$
$20$
$20$

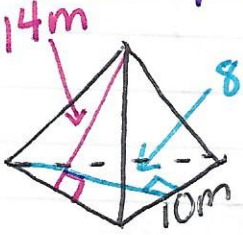
$105 in^2$

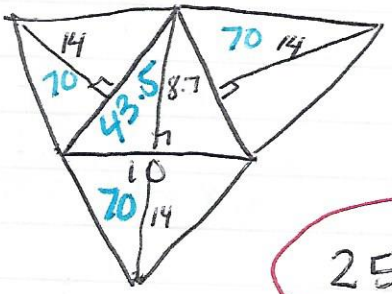
Net




$20+20+20+20+25$
$= 105 in^2$

## Example 2: Triangular Pyramid




Base: $\frac{10 \times 8.7}{2}$

$= 43.5 m^2$

L.F. (x3): $\frac{10 \times 14}{2} = 70 m^2$

$+ \quad 70$
$70$
$70$

$253.5 m^2$