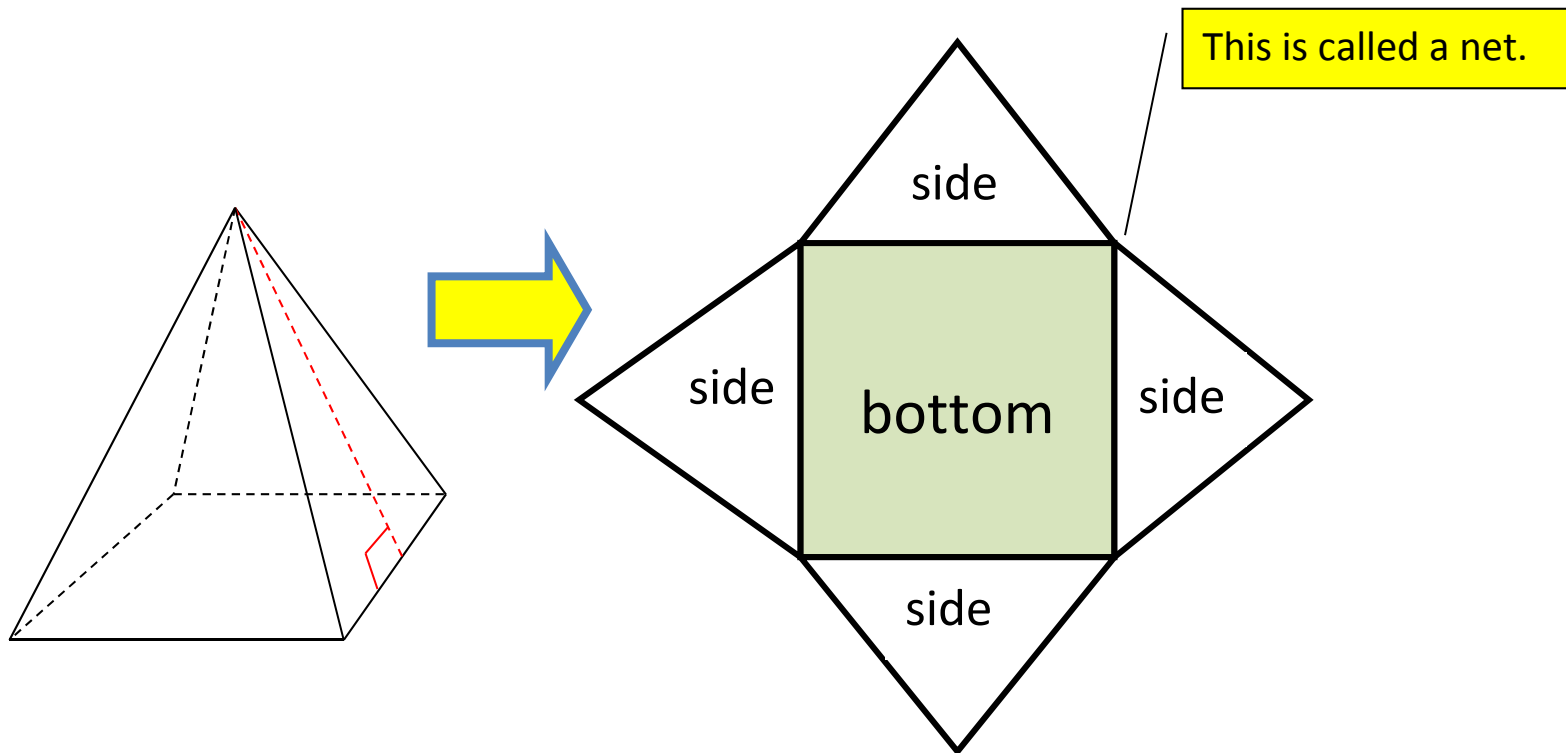


The **surface area** of a square pyramid is the sum of the areas of its 5 faces.



Surface Area of a **Square Pyramid** is...

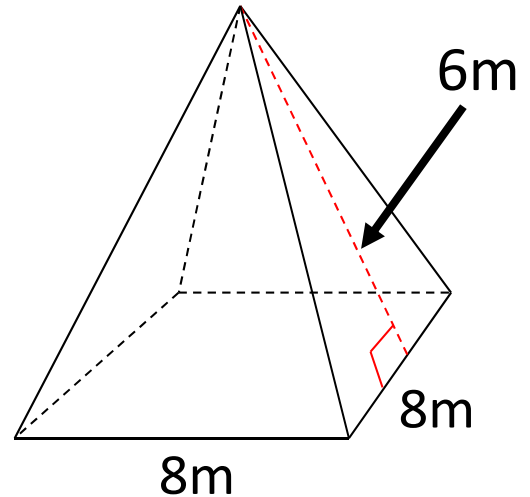
$$S.A. = B + 4T$$

Where **B** = area of the base

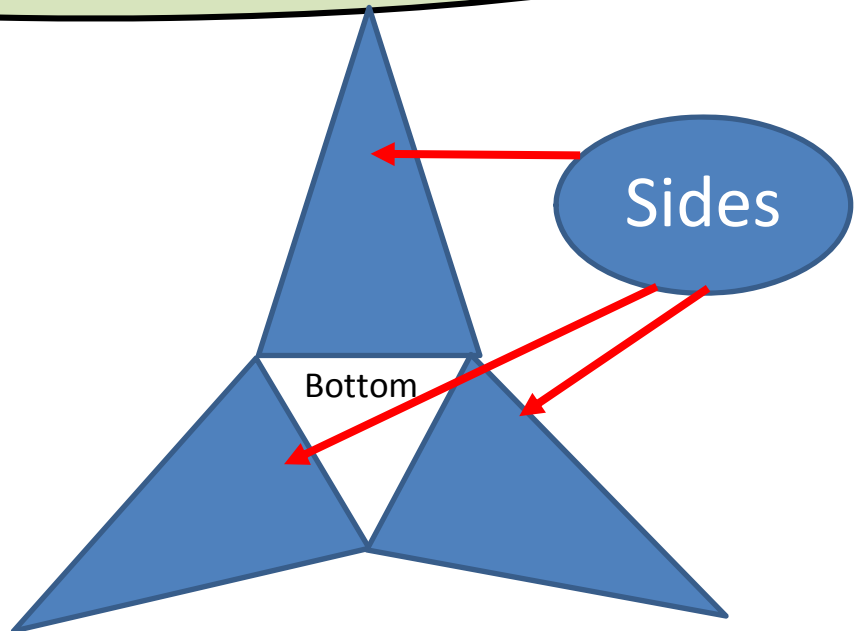
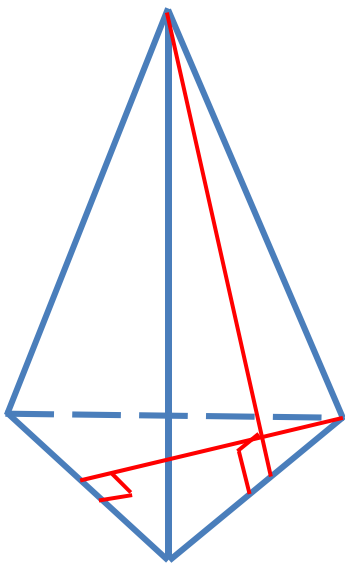
Where **T** = area of a triangular face

Example: Find the surface area of the square pyramid.

$$\begin{aligned} \text{S.A.} &= B + 4T \\ &= (8 \times 8) + 4(0.5 \cdot 8 \cdot 6) \\ &= 64 + 96 \\ &= 160 \text{ m}^2 \end{aligned}$$



The surface area of a triangular pyramid is the sum of the areas of its 4 faces.



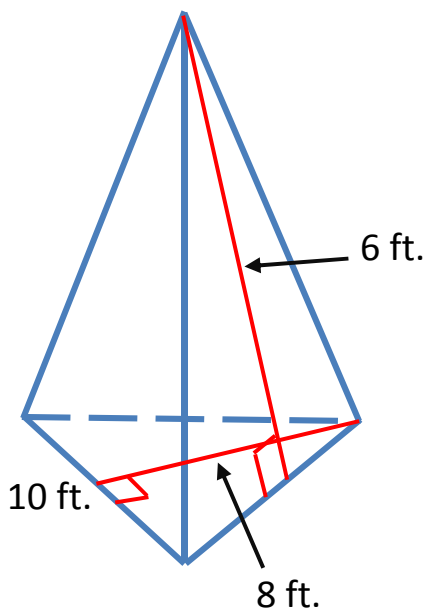
Surface Area of a Triangular Pyramid is...

$$S.A. = B + 3T$$

Where  $B$  = area of the base

Where  $T$  = area of a triangular face

Example: Find the surface area of the triangular pyramid.



$$\begin{aligned} S.A. &= B + 3T \\ &= \frac{1}{2} (10)(8) + \frac{1}{2} (10)(6) \cdot 3 \\ &= 40 + (30 \cdot 3) \\ &= 40 + 90 \\ &= 130 \text{ ft}^2 \end{aligned}$$