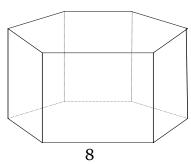
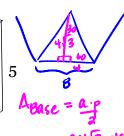


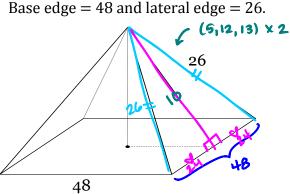
Find the lateral surface area and total surface area of each solid. Show work!

1. Right regular hexagonal prism.

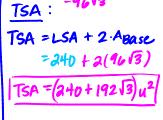
2. Square pyramid

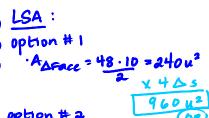






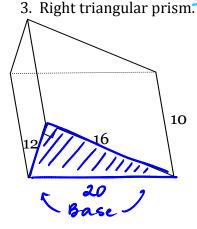
option #1 · Aprace = 8.5 = 40 u2 Ophon #2 · LSA = p.h = (8.6).5 = a40 u

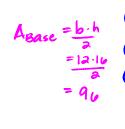


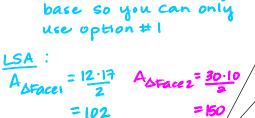


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4. Rectangular pyramid

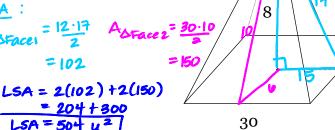






<u>= 204+300</u> $LSA = 504 u^2$

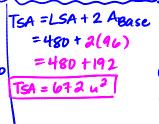
* Does not have a regular



_SA: A_1 =16.10=160 AD2 = 12.10 = 120 A 13 = 20.10 =200 LSA = 480 u2

option 2
LSA =
$$p \cdot h$$

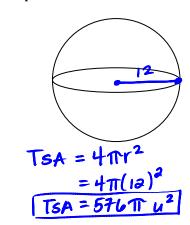
= (12+16+20)·10
= (48)10
LSA = 480 μ^2



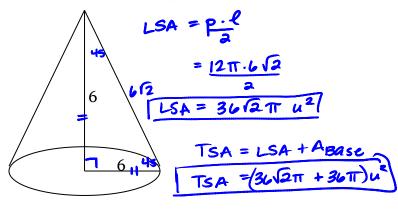
5. What is the difference between a prism and a pyramid?

A prism is a 3-D solid that has 2 =, 11 bases with rectangular faces. A pyramid is a 3-D solid that has I base with triangular faces.

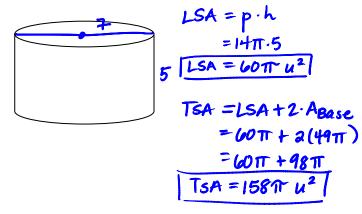
6. Sphere with radius = 12.



7. Cone. Radius = 6, altitude = 6



8. Cylinder. Diameter = 14, height = 5.



9. Complete the analogy:

Cylinder is to prism as cone is to

pyramid.

- 10. Find the total surface area of the combined shapes. (Hint: Do not include any faces that would be inside the shape.)
- a) Square pyramid on top of cube

b) Hemisphere on top of cone.

