NAME_____**DATE**_____**PER.**_____

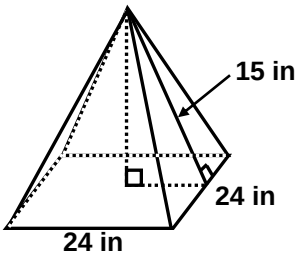
REVIEW #14: SURFACE AREA & VOLUME OF PYRAMIDS & CONES

PART 1: Surface Area & Volume of Pyramids
For each of the pyramids, find a) Lateral Area, b) Total Area, and c) Volume.

1. LA = _____

TA = _____

V = _____

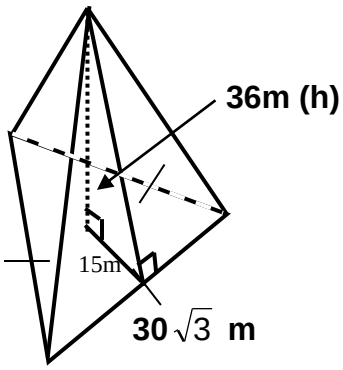


Parts First!
ℓ =
h =
a =
B =
P =

2. LA = _____

TA = _____

V = _____

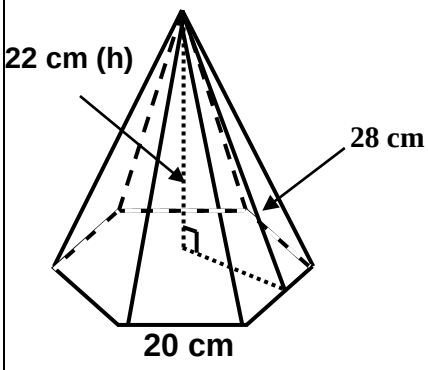


Parts First!
ℓ =
h =
a = 15m
B =
P =

3. LA = _____

TA = _____

V = _____

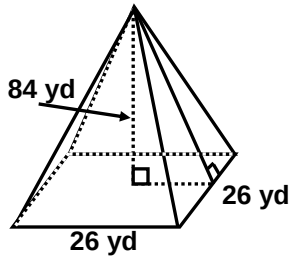


Parts First!
ℓ = 28cm
h =
a =
B =
P =

4. LA = _____

TA = _____

V = _____

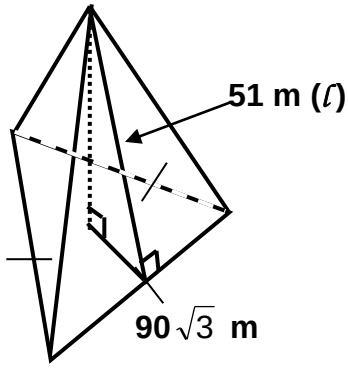


Parts First!
ℓ =
h =
a =
B =
P =

5. LA = _____

TA = _____

V = _____

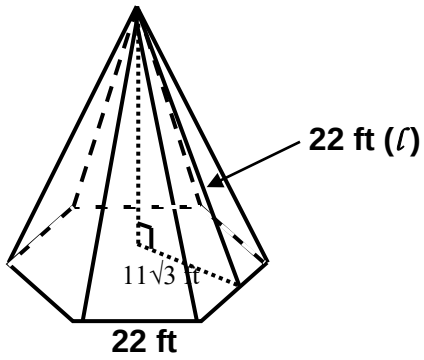


Parts First!
ℓ =
h =
a = 45
B =
P =

6. LA = _____

TA = _____

V = _____



Parts First!
ℓ =
h =
a = 11√3 ft
B =
P =

Find the indicated measure.

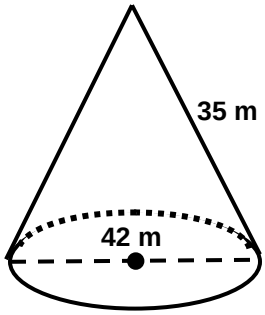
7. V = _____	The base of a triangular pyramid has an area of $15\sqrt{3}$ square yards and a height of 4 yd. Find the volume.
8. TA = _____	A triangular pyramid has a base with each side measuring $6\sqrt{3}$ cm. Its slant height is 8 cm and its base area is $27\sqrt{3}$ cm^2. Find the Total Area.
9. V = _____	A square pyramid has a base edge of 40 inches and a slant height of 29 in. Find its Volume.
10. LA = _____	A square pyramid has a base edge of 3 cm and a slant height of 6 cm. Find its Lateral Area.

PART 2: Surface Area & Volume of Cones
Find the measure(s) indicated. Answers to even numbered problems should be rounded to the nearest thousandth.

11. LA = _____

TA = _____

V = _____

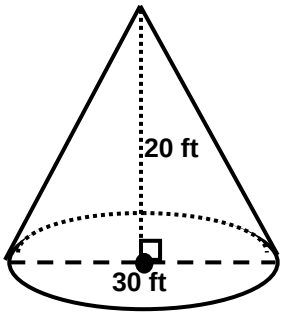


Parts First!
ℓ =
h =
r =
B(πr^2) =
P(2πr) =

12. LA = _____

TA = _____

V = _____



Parts First!
ℓ =
h =
r =
B(πr^2) =
P(2πr) =

13. V = _____

Find the Volume of a right circular cone with a radius of 6 cm and an altitude of 10 cm.

14. h = _____	The base area of a cone is 49π m^2 and the volume is 196π m^3. Find its height.
15. h = _____	The Lateral Area of a cone is 60π in. The radius of the cone is 6in. Find the height of the cone.
16. _____	True or False: The slant height will always be longer than the altitude of a pyramid or cone.
17. _____	A pyramid with a rectangular base has a volume of 180 cubic inches and a height of 4 inches. The width of the rectangular base is 6 inches. Find the length in inches of the rectangular base.

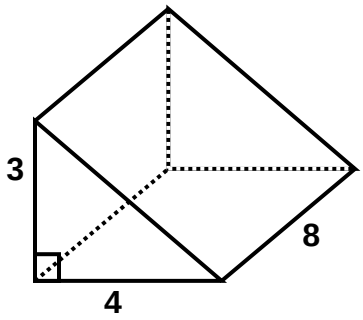
Review

18. Name:_____

LA = _____

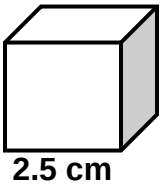
TA = _____

V = _____



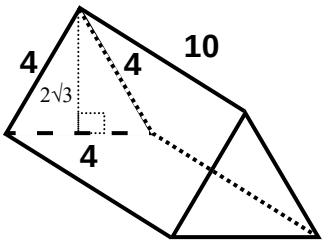
19. Find the ***VOLUME*** of a cube with a base edge of 2.5 cm:

_____



20. Find the ***TOTAL AREA*** of the figure at right.

_____

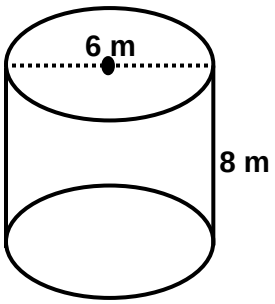


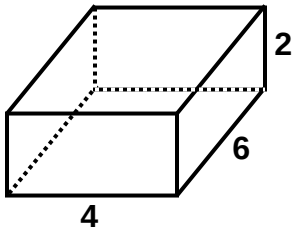
21. LA = _____

TA = _____

V = _____

Find the Lateral Area, Total Area, and Volume of the right circular cylinder:



22.Find the ***VOLUME*** of the figure at right. _____	
23. Height = _____	The Volume of a cylinder is 250π cubic units. If the radius is 5 units, find the height.
24. Height = _____	The Total Area of a cylinder is 81π square units. If the radius is 3 units, find the height.