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

12.2/12.4a – LATERAL AREA, SURFACE AREA, & VOLUME OF PRISMS

For each of the prisms below, a) name it; b) find its $Lateral\ Area$, c) find its $Surface\ Area$, and d) find its $Volume$. Work must be shown to receive credit!

1.

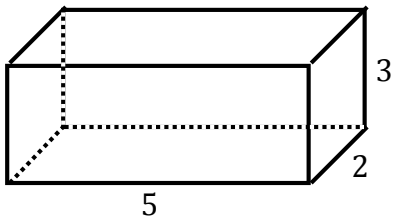
a) Name:

_____

b) LA = _____

c) SA = _____

d) V = _____



2.

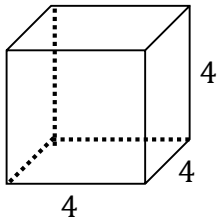
a) Name:

_____

b) LA = _____

c) SA = _____

d) V = _____



3.

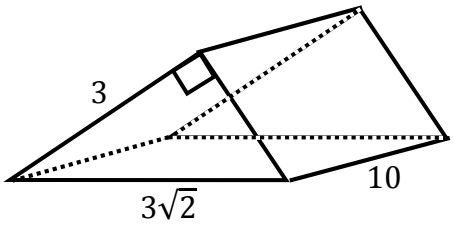
a) Name:

_____

b) LA = _____

c) SA = _____

d) V = _____



4.

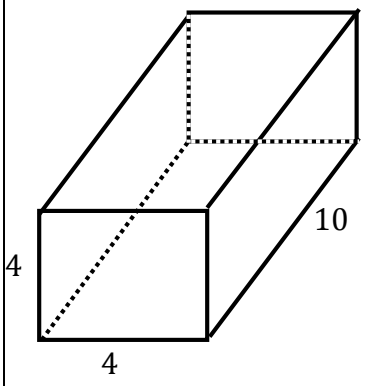
a) Name:

_____

b) LA = _____

c) SA = _____

d) V = _____



5.

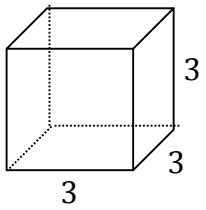
a) Name:

_____

b) LA = _____

c) SA = _____

d) V = _____



6.

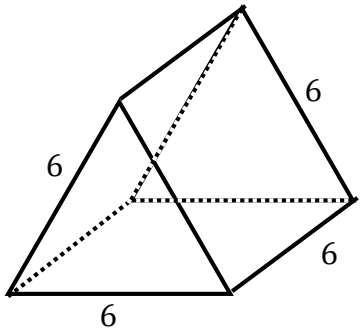
a) Name:

_____

b) LA = _____

c) SA = _____

d) V = _____



7.

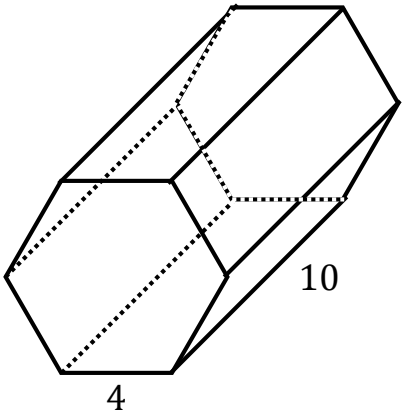
a) Name:

_____

b) LA = _____

c) SA = _____

d) V = _____



8.

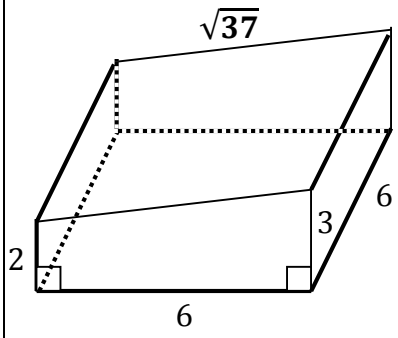
a) Name:

_____

b) LA = _____

c) SA = _____

d) V = _____



9.

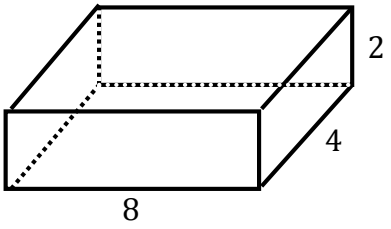
a) Name:

_____

b) LA = _____

c) SA = _____

d) V = _____



10.

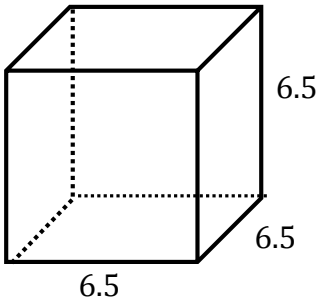
a) Name:

_____

b) LA = _____

c) SA = _____

d) V = _____



11.

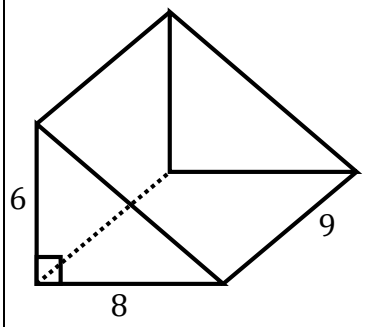
a) Name:

_____

b) LA = _____

c) SA = _____

d) V = _____



12.

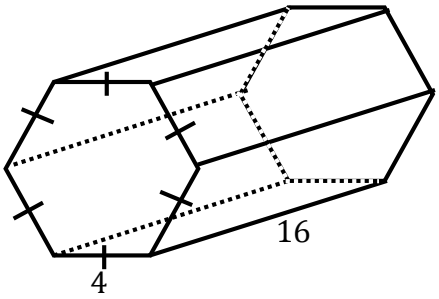
a) Name:

_____

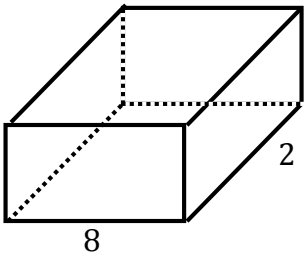
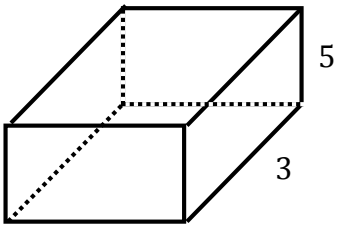
b) LA = _____

c) SA = _____

d) V = _____



Find the indicated measures.

13. a) $h =$ _____ b) $\mathrm{LA} =$ _____ c) $\mathrm{SA} =$ _____	The rectangular prism below has a volume of $64\ cubic\ units$. Find its $height$, $Lateral\ Area$, and $Surface\ Area$. 
14. a) $l =$ _____ b) $\mathrm{LA} =$ _____ c) $\mathrm{SA} =$ _____	The rectangular prism below has a volume of $75\ cubic\ units$. Find its $length$, $Lateral\ Area$, and $Surface\ Area$. 

For each prism described, find its $Lateral\ Area$, $Surface\ Area$, and $Volume$.

15. a) $\mathrm{LA} =$ _____ b) $\mathrm{SA} =$ _____ c) $\mathrm{V} =$ _____	The base of a rectangular prism has a length of $3\ units$ and a width of $2\ units$. The height is $5\ units$.
16. a) $\mathrm{LA} =$ _____ b) $\mathrm{SA} =$ _____ c) $\mathrm{V} =$ _____	The base of a triangular prism is an equilateral triangle with a side length of $3\ cm$. The height is $6\ cm$.