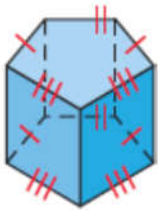
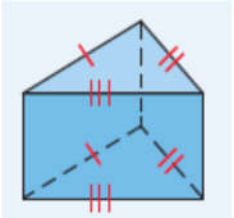
Geometry

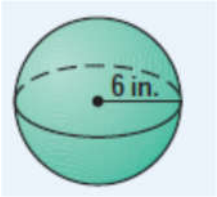
Chapter 9 Test Review

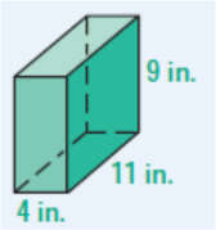
Name:_____
Hour: ____

Tell whether the solid is a polyhedron. If so, name the solid.

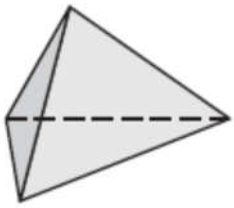
1. 

2. 

3. 

4. 

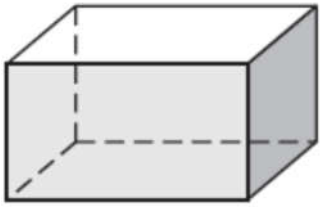
Name the polyhedron. Then count the number of faces and edges.

5. 

Name:

Faces:

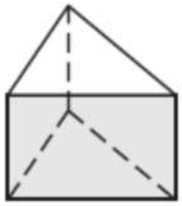
Edges:

6. 

Name:

Faces:

Edges:

7. 

Name:

Faces:

Edges:

Use Euler's formula F + V = E + 2 to find the number of faces, edges or vertices.

8. A prism has 4 faces and 6 edges. How many vertices does it have?

9. A pyramid has 5 faces and 6 vertices. How many edges does it have?

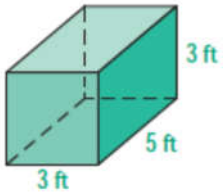
10. A pyramid has 12 edges and 7 vertices. How many faces does it have?

S.A of a PRISM: $SA = 2(a\ of\ B) + Ph$ **S.A of a CYLINDER:** $SA = 2\pi r^2 + 2\pi rh$ **S.A. of a SPHERE:** $SA = 4\pi r^2$

S.A of a PYRAMID: $SA = a\ of\ B + \frac{Pl}{2}$ **S.A of a CONE:** $SA = \pi r^2 + \pi rl$

B = area of the base **Area of a triangle:** $\frac{bh}{2}$ **Area of a rectangle/square:** bh

Name the solid then find the SURFACE AREA to the nearest whole number.

11. 

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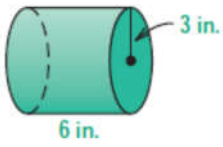
12. 

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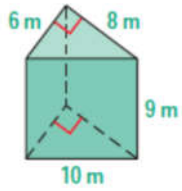
13. 

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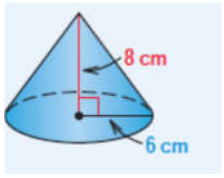
14. 

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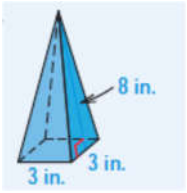
15. 

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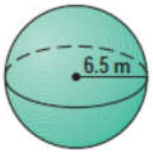
16. 

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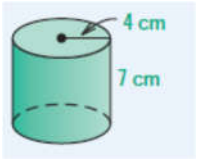
17. 

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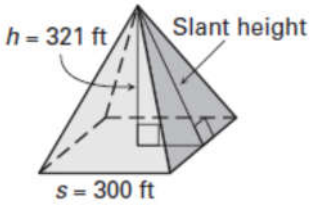
19. 

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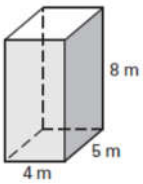
20. 

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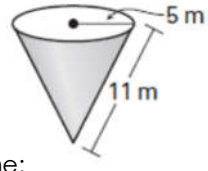
21. 

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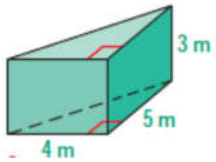
Volume of a PRISM: $V = (a\ of\ B)h$ **Volume of a CYLINDER:** $V = \pi r^2 h$ **Volume of a SPHERE:** $V = \frac{4\pi r^3}{3}$

Volume of a PYRAMID: $V = \frac{(\text{a of B})\text{h}}{3}$ **Volume of a CONE:** $V = \frac{\pi r^2 h}{3}$

B = area of the base **Area of a triangle:** $\frac{bh}{2}$ **Area of a rectangle/square:** bh

Name the solid. Then find the VOLUME of the solid.

23. 

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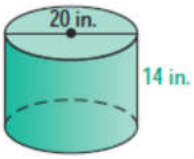
24. 

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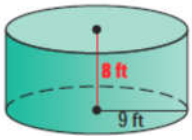
26. 

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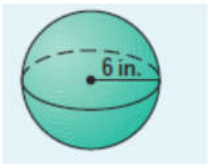
27. 

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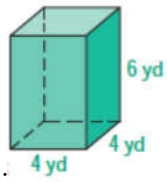
28. 

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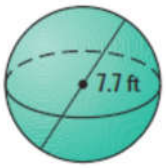
29. 

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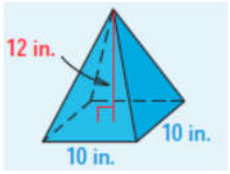
30. 

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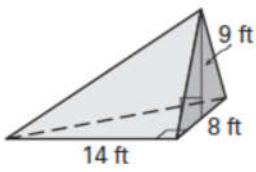
31. 

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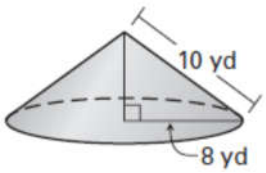
32. 

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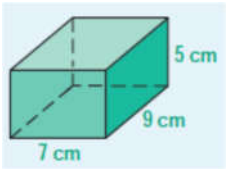
33. 

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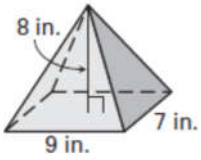
34. 

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