For each multiple choice question, please circle your answer.

1. The lateral faces of a prism are the non-base faces.   T   or   F

2. A triangular prism has a 6 faces.   T   or   F

3. A cube has 8 congruent square faces.   T   or   F

4. A right triangular prism has right triangular lateral sides.   T   or   F

5. In all prisms there will always be more lateral faces then base faces.   T   or   F

6. A square pyramid has 5 faces.   T   or   F

7. The lateral edge of a pyramid is equal to the slant height the lateral face.   T   or   F

8. The height of a right square pyramid is always less than the slant height of a lateral face.   T   or   F

9. The ratio of volume between a prism and a pyramid with the same base and height is 3:1. T   or   F

10. If a prism and a pyramid have the same base and height, then the volume of pyramid
    will always be the greater value.   T   or   F

11. The volume of a cylinder is $\frac{1}{3}$ the amount of a cone with the same radius and height.   T   or   F
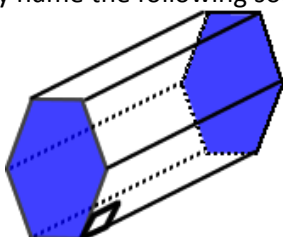
12. Match the following terms to the diagram.

Given the square pyramid. Use each value ONLY ONCE.

_____ Height   A. ΔEAD

_____ Lateral Face   B. $\overline{AG}$

_____ Slant Height   C. $\overline{AB}$

_____ Lateral Edge   D. $\overline{AF}$

_____ Base   E. Square EDCB
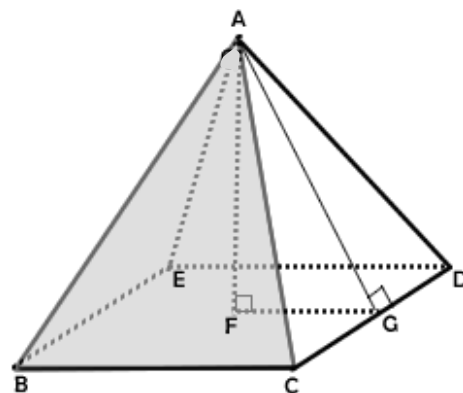
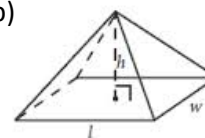13. Properly name the following solids.

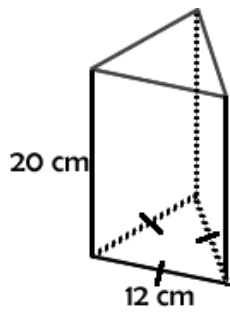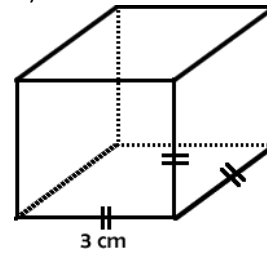a)   b)

_____   _____

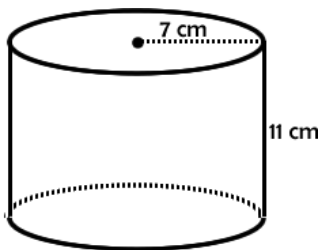14. Determine the volume of the solids. (Lines that appear perpendicular are perpendicular.)
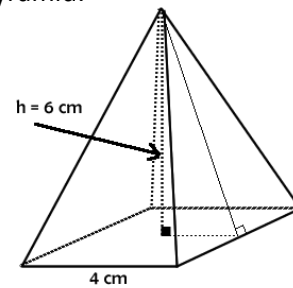
a)

20 cm

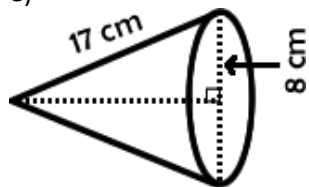12 cm

Volume = _____ (E)

b)

3 cm

Volume = _____ (E)

c)

7 cm

11 cm

Volume = _____ (E)

d) Given that the solid below is a square pyramid:

h = 6 cm

4 cm

Volume = _____ (2 dec)

e)

17 cm

8 cm

Volume = _____ (E)
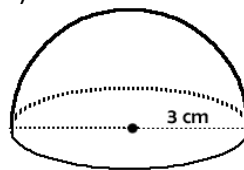
f)

$24\sqrt{2}$ cm

45°

Volume = _____ (E)

g)

5 cm

Volume = _____ (2 dec.)

h)

3 cm
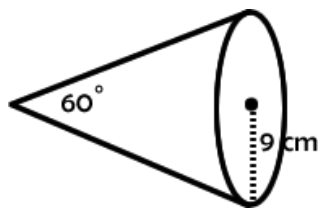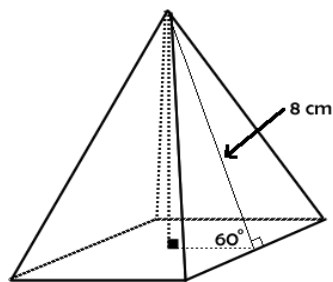
Volume = _____ (E)

i)

60°

9 cm
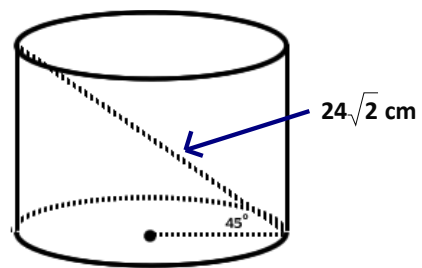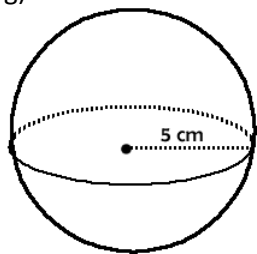
Volume = _____ (E)

j) Given the following is a square pyramid:

8 cm

60°

Volume = _____ (E)