

## Exercise Set 8.1

**Part A—Use the prism and pyramid to the right to answer questions 1-8.**

1. Name the bases of the prism.

\_\_\_\_\_

2. Name all of the lateral faces of the prism.

\_\_\_\_\_

3. Name all the lateral edges of the prism.

\_\_\_\_\_

4. What is the height of the prism?

\_\_\_\_\_

5. Name the base of the pyramid.

\_\_\_\_\_

6. Name the vertex of the pyramid.

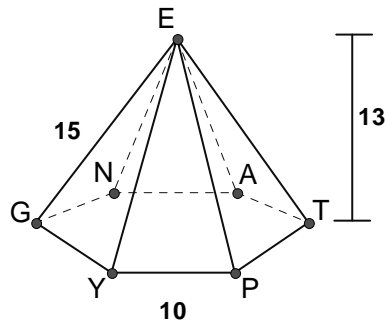
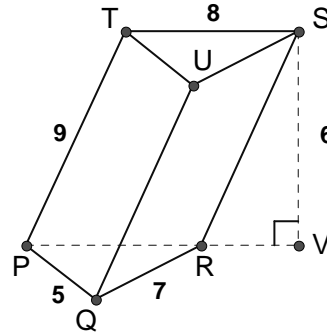
\_\_\_\_\_

7. Name all the lateral edges of the pyramid.

\_\_\_\_\_

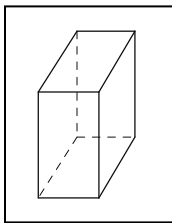
8. What is the height of the pyramid?

\_\_\_\_\_

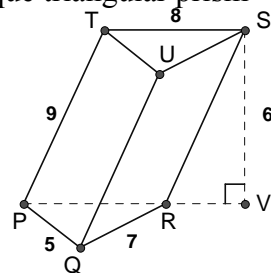


**Part B—Sketch an example of each solid in problems 9-12.**

9. Right rectangular prism

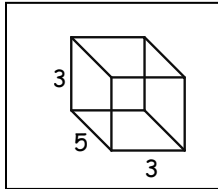


10. Oblique triangular prism

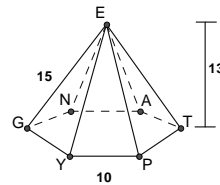


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


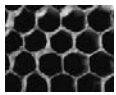
11. Regular prism



12. Hexagonal pyramid



**Part C—Match each object on the left with a geometric name on the right. You may use a geometric name more than once or not at all.**

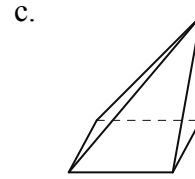
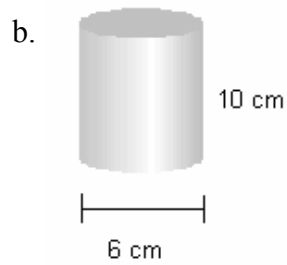
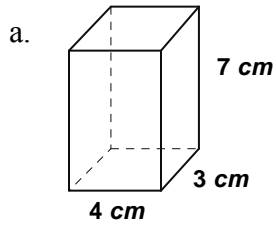
- |   |   |                       |
|---|---|-----------------------|
| _____ 13. Dice                            |    | a. Cylinder           |
| _____ 14. Tomb of Egyptian ruler          |   | b. Cone               |
| _____ 15. Holder for a scoop of ice cream |   | c. Square prism       |
| _____ 16. Wooden doorstop                 |    | d. Square pyramid     |
| _____ 17. Box of cereal                   |   | e. Sphere             |
| _____ 18. U.S. Military Headquarters      |   | f. Triangular pyramid |
| _____ 19. Pup Tent                        |  | g. Triangular prism   |
| _____ 20. Can of tuna fish                |   | h. Trapezoidal prism  |
| _____ 21. Ingot of silver                 |  | i. Pentagonal prism   |
| _____ 22. Honeycomb                       |  | j. Rectangular prism  |
| _____ 23. Moon                            |   | k. Hexagonal prism    |
| _____ 24. Dunce Cap                       |   | l. Truncated cone     |
| _____ 25. Lampshade                       |   | m. Octagonal prism    |

**Part D—Multiple Choice**

- \_\_\_\_\_ 26. The diagonal of a rectangular prism with dimensions 8 *cm* by 4 *cm* by 6 *cm* is:
- about 18 *cm*
  - about 6 *cm*
  - about 116 *cm*
  - about 10.77 *cm*

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\_\_\_\_\_ 27. Which solid is oblique?



\_\_\_\_\_ 28. Identify the slant height of the cone.

- a. AC
- b. AB
- c. BC
- d. CD

