

Partly based on a document by H Vedrine

It is important that you pronounce the words the right way.

In order to check the pronunciation of any word, you can go to <http://www.reference.com/>, type the word and then click on the microphone icon : The word will be read aloud to you.

Alternatively, you can (and should!) learn to read the pronunciation symbols of the International Phonetic Alphabet (IPA). I used the IPA to indicate the pronunciations of the words (in between the / signs) in the Useful Words boxes below.

**Exercise 1. A Cylinder ...**

1) The height of a certain cylinder is exactly twice as large as its radius. If the volume of the cylinder is  $54\pi cm^3$  is the radius of the cylinder?

2) Draw a flat pattern of this cylinder.

**Useful Words 1 with their pronunciation**

(You must be able to use them so learn them!)

- height /**h**aɪt/
- cylinder /'sɪlɪndər /
- radius /reɪdiəs / Plural radii /'reɪ dɪ, aɪ/ : 1) a straight line extending from the center of a circle or sphere to the circumference or surface: The radius of a circle is half its diameter. 2) The length of such a line.
- volume /'vɒljum, -yəm/
- $\pi$  reads /**pai**/ not /pi/.
- $cm^3$  reads “cubic centimeters”.
- flat pattern /'pætərn / : a 2D figure that, once folded, will create a solid.
- prism /'prɪzəm/

**Exercise 2. Vocabulary**

For each of the Useful Words boxes below, draw a figure and then write ALL the words in the box on the figure. It should be clear what each word refers to; you may use speech bubbles, like the ones used in cartoons.

Be ready to come to the board to draw your figure and describe it!

**Useful Words 2 (to be learnt!)**

- “Soit A un point...” is translated by “Let A be a point...”
- point /pɔɪnt/
- midpoint
- endpoint
- line segment /laɪn 'sɛgmənt /
- length /lɛŋkθ, lɛŋθ, lɛnθ/

**Useful Words 3 (to be learnt!)**

- line /laɪn/
- parallel to /'pærə, lɛl, -ləl/
- perpendicular to /,pɜːpən'dɪkjələr/
- passing through /'pæsɪŋ θru/
- intersection /,ɪntər'sɛkʃən/

**Useful words 4 (to be learnt!)**

- circle /'sɜːrkəl/
- center /'sɛntər/
- radius /reɪdiəs /
- diameter /daɪ'æmɪtər/
- Circumference /sər'kʌmfərəns/ : 1) The length around a circle. 2) The circle itself.
- Chord /kɔːrd/ : Straight line segment both endpoints of which lie on the circumference of a circle.
- intersection /,ɪntər'sɛkʃən/