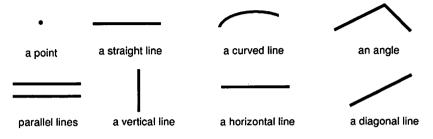


## §1 One-dimensional and two-dimensional shapes

1. 英語では点、直線、曲線、角、平行線、垂直線、水平線、対角線は各々次のよう にいう。



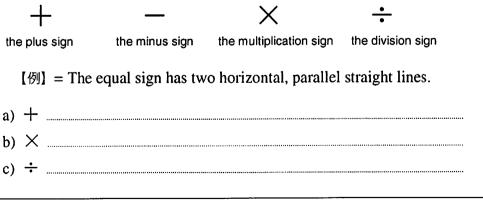
A. 次の文を読んで、質問に答えなさい。

The letter 'E' has one vertical line and three horizontal lines. It also has four angles.

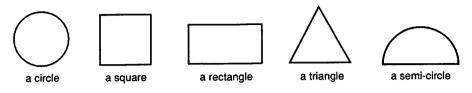
Which of these letters are described below?

## D, M, C, H, F, L, Z, B

- a) A letter with 1 curved line and no straight lines.
- b) A letter with 2 curved lines and 1 vertical line.
- c) A letter with 2 parallel vertical lines, 1 horizontal line and 4 angles.
- d) A letter with 2 vertical lines and 2 diagonal lines.
- B. 次の記号を説明する文を例にならって書きなさい。

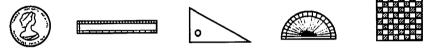


vertical [vá:rtikl]「垂直の」 horizontal [hò(:)rəzántl]「水平の」 diagonal [daiægənl] 「対角 線の、斜めの」 dimensional [dimén∫ənl] 「~次元の」 2. 英語では円、正方形、長方形、三角形、半円を各々次のようにいう。



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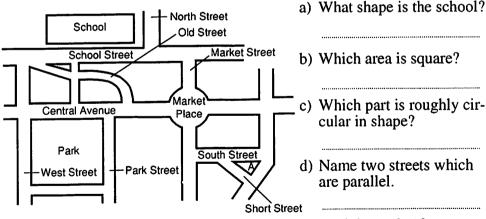
- A. 次の質問に答えなさい。
  - a) Which figure always has equal sides?
  - b) Which figure has 3 angles?
  - c) Which figure has a curved side and a straight side?
- B. 例にならって次の空欄を埋めなさい。



【例】A coin is shaped like a circle. It is circular in shape.

- a) A ruler is shaped like a rectangle. It is \_\_\_\_\_\_ in shape.
- b) A set square is shaped like a triangle. It is \_\_\_\_\_ in shape.
- c) A protractor is shaped like a semi-circle. It is \_\_\_\_\_ in shape.
- d) A chess-board is shaped like a square. It is \_\_\_\_\_ in shape.

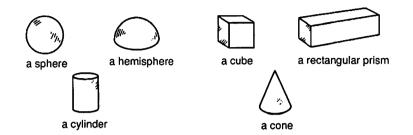
## 3. 次の地図を見て質問に答えなさい。



e) Which streets meet at an angle of 90 degrees (at right angles)?

......

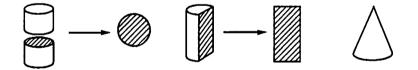
4. 英語では球、半球、円柱、立方体、直方体、円錐を各々次のようにいう。



それぞれの立体の形を説明する文を例にならって作りなさい。

d) A cone

- 【例】A sphere has one *surface*. It is *curved*. A cube has 6 *surfaces*. They are all *flat* and square.
- a) A hemisphere
- b) A rectangular prism
- c) A cylinder
- 5. 次の説明を読み、問に答えなさい。



The *cross-section* of a cylinder is circular. The *longitudinal* section is rectangular. The sides of a cylinder are parallel. The sides of a cone are *tapering*.

- a) What shape is the cross-section of a sphere?
- b) What shape is the longitudinal section of a hemisphere?

cross-section「横断面」 longitudinal [làndʒətjúːdənl] 「縦の」 taper [téipər]「先細になる」

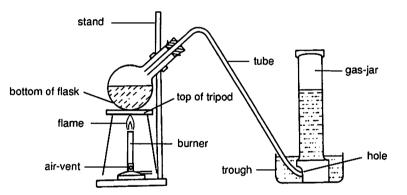
c) Which solid is rectangular in cross-section?

.....

d) In longitudinal section, are the sides of a cylinder parallel or tapering?

e) What shape is the cross-section of a cone?

- 6. 次の空欄に適語を入れなさい。
  - a) Cylindrical = shaped like a \_\_\_\_\_
  - b) Cubic = shaped like a \_\_\_\_\_\_
    c) Conical = shaped like a \_\_\_\_\_\_
  - d) Spherical = shaped like a \_\_\_\_\_
- 7. 下の絵を見ながら C D を聞き、空欄に適語を書き入れなさい。 😭 1



In this apparatus, the bottom of the flask is 1)\_\_\_\_\_ in shape. The flask is in a 2)\_\_\_\_\_ position. The stand is 3)\_\_\_\_\_. The gas-jar is 4)\_\_\_\_\_ in shape. The burner is also 5)\_\_\_\_\_. The air-vent is 6)\_\_\_\_\_. The flame is 7)\_\_\_\_\_. The bottom of the trough is 8)\_\_\_\_\_\_. The hole at the bottom of the gas-jar is 9)\_\_\_\_\_\_ in shape. The top of the tripod is 10)\_\_\_\_\_. In cross-section, the tube is 11)\_\_\_\_\_.