

## The mysterious figure

Read the instructions carefully and draw the figure.

Do not translate the instructions. Try to understand the meaning of the words from the context and from your knowledge of geometry.

1. Draw a point **A**.
2. Draw a point **B**.
3. Draw the **segment** from A to B.
4. Mark the **midpoint M** of the segment.
5. Draw a **line** through M, **perpendicular** to the segment.
6. Draw a point **C** on this line.
7. Draw the **ray** starting at A and passing through C.
8. Draw a **line parallel** to the first line through B.

Compare your figure with your partner's figure.

- Did you draw the same figure?
- Which words were easy to understand?
- Which words were more difficult?

## The detective work

Now become a geometry detective!

The words below appeared in the instructions. Use the definitions to work out their meaning.

| Word          | Definition                                                          |
|---------------|---------------------------------------------------------------------|
| point         | A precise position in space.                                        |
| segment       | A part of a line with two endpoints.                                |
| line          | A straight path that continues in both directions.                  |
| ray           | A part of a line with one endpoint that continues in one direction. |
| midpoint      | A point that divides a segment into two segments of equal length.   |
| parallel      | Two lines that never meet.                                          |
| perpendicular | Two lines that meet at a right angle.                               |

1. Match each English word with its French equivalent.

| English       | French | A small drawing |
|---------------|--------|-----------------|
| point         |        |                 |
| segment       |        |                 |
| line          |        |                 |
| ray           |        |                 |
| midpoint      |        |                 |
| parallel      |        |                 |
| perpendicular |        |                 |

2. Complete the sentences with the correct word.

- a. A \_\_\_\_\_ has two endpoints.
- b. A \_\_\_\_\_ has one endpoint.
- c. The \_\_\_\_\_ divides a segment into two equal parts.
- d. Two \_\_\_\_\_ lines never meet.
- e. Two \_\_\_\_\_ lines form a right angle.