



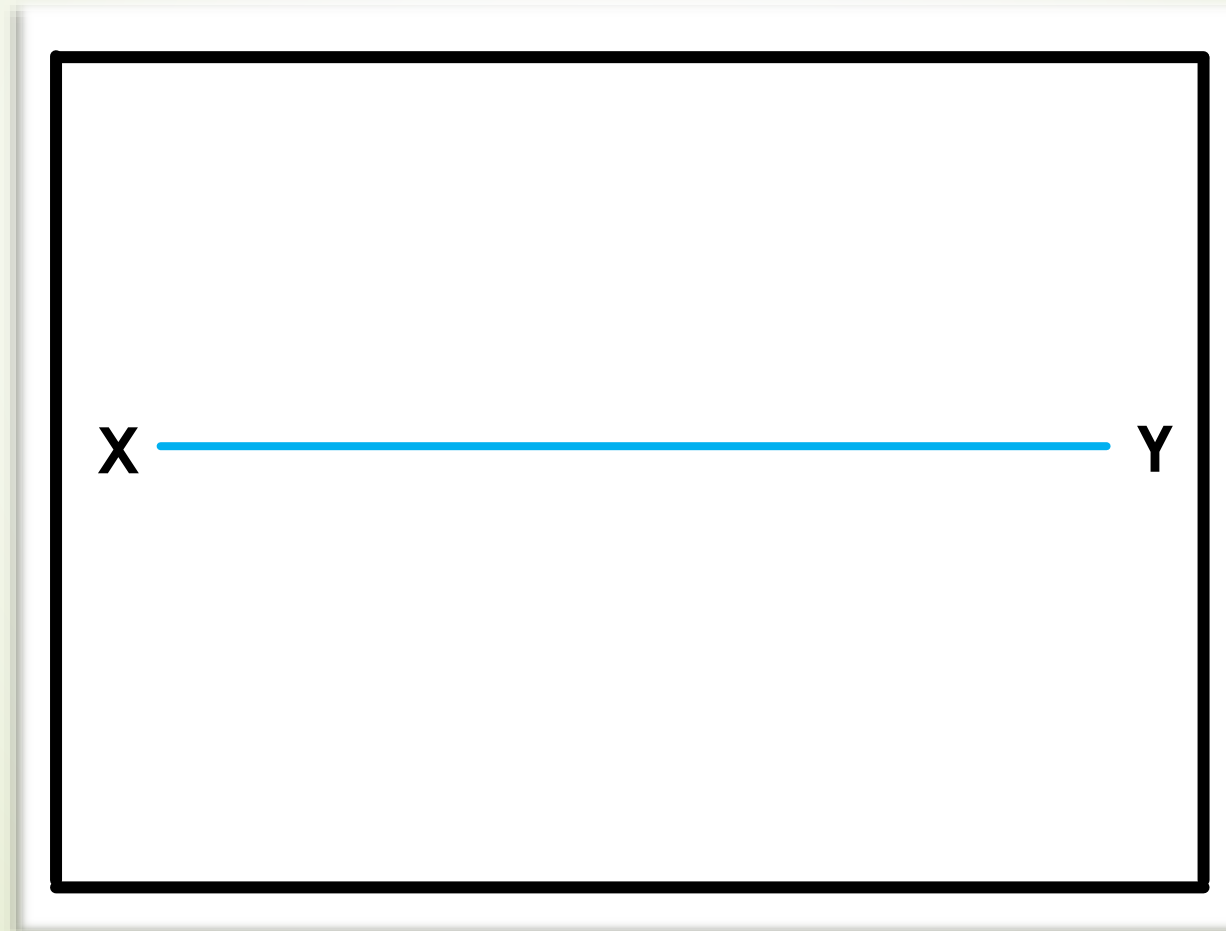
# DESCRIPTIVE GEOMETRY

## Drawing Principles

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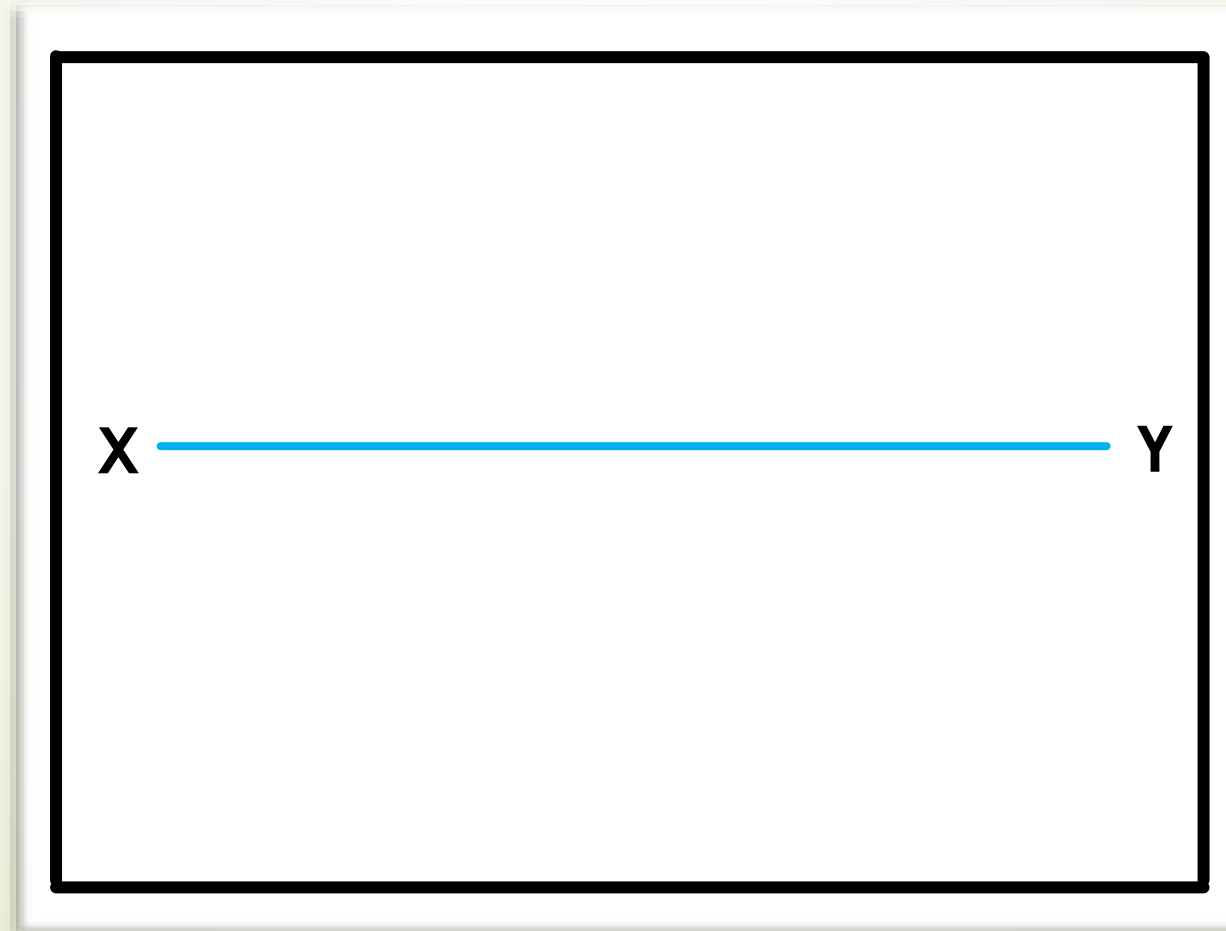
# DESCRIPTIVE GEOMETRY

- An A4 paper can be divided horizontally into two halves.



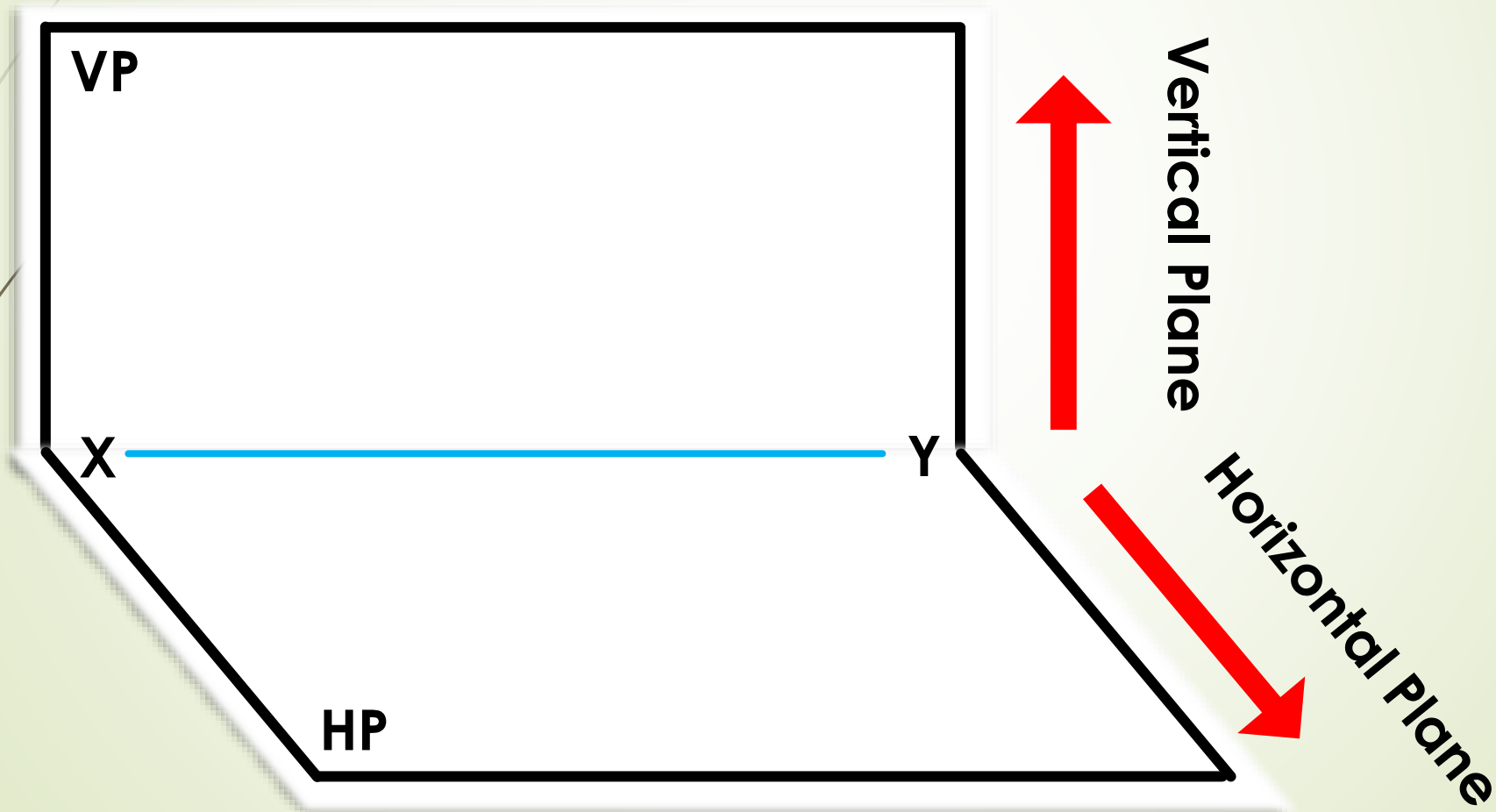
# DESCRIPTIVE GEOMETRY

- The dividing line is normally called the XY-line.



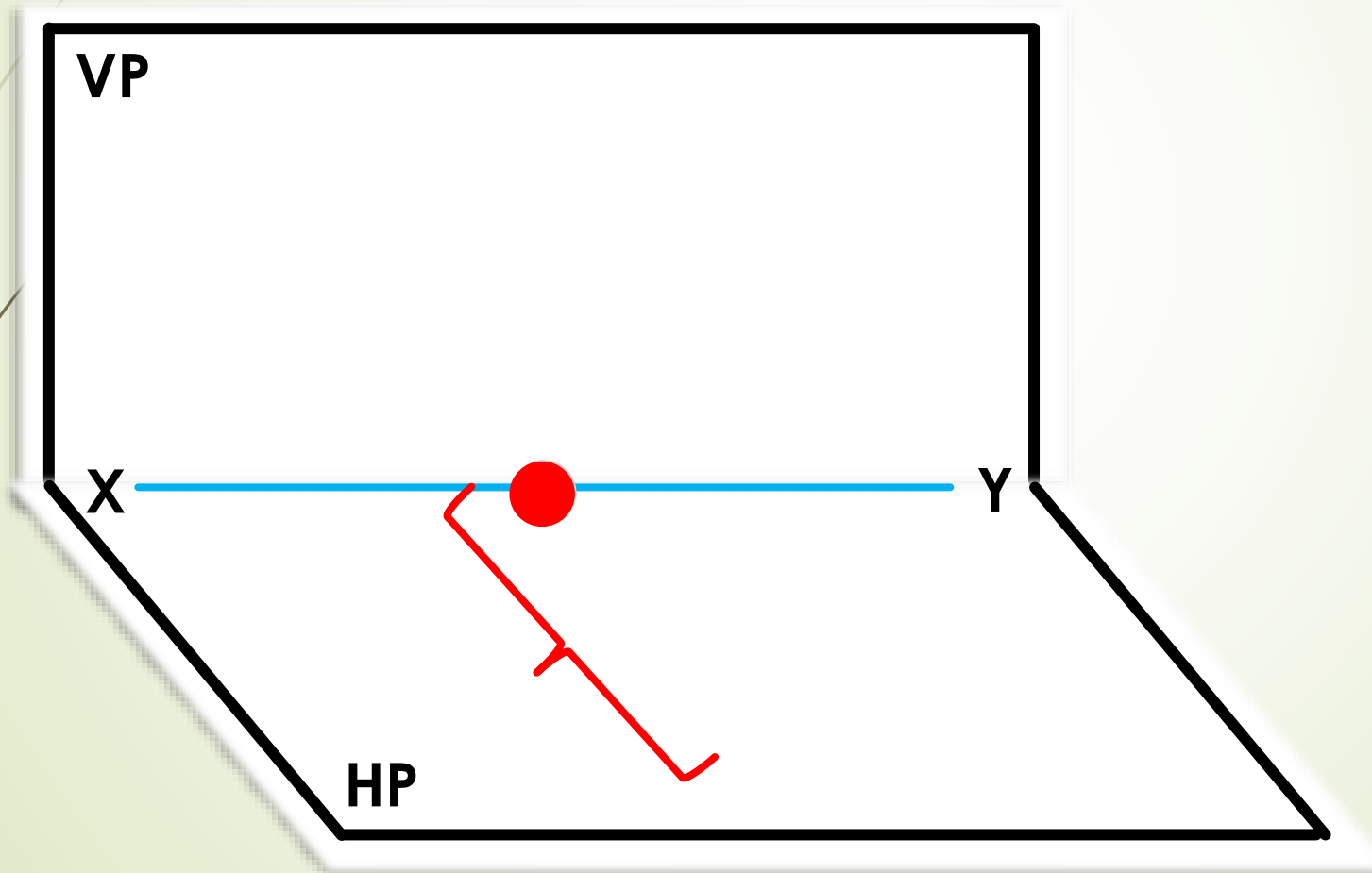
# DESCRIPTIVE GEOMETRY

- The upper half will form the **vertical plane (VP)** and the bottom half the **horizontal plane (HP)**.



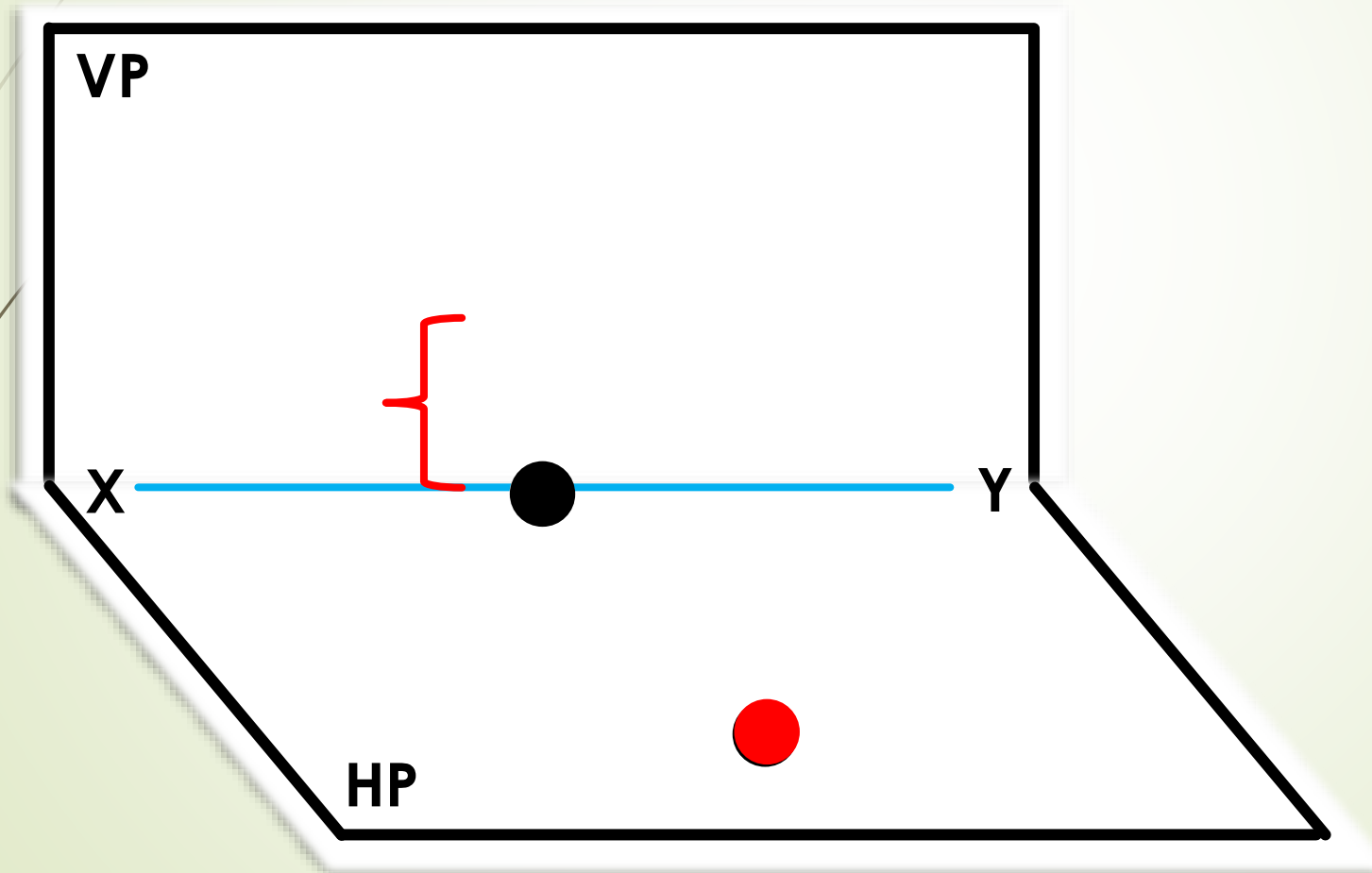
# DESCRIPTIVE GEOMETRY

- An object can be plotted **in front of/before** the **vertical plane (VP)** at any given distance.



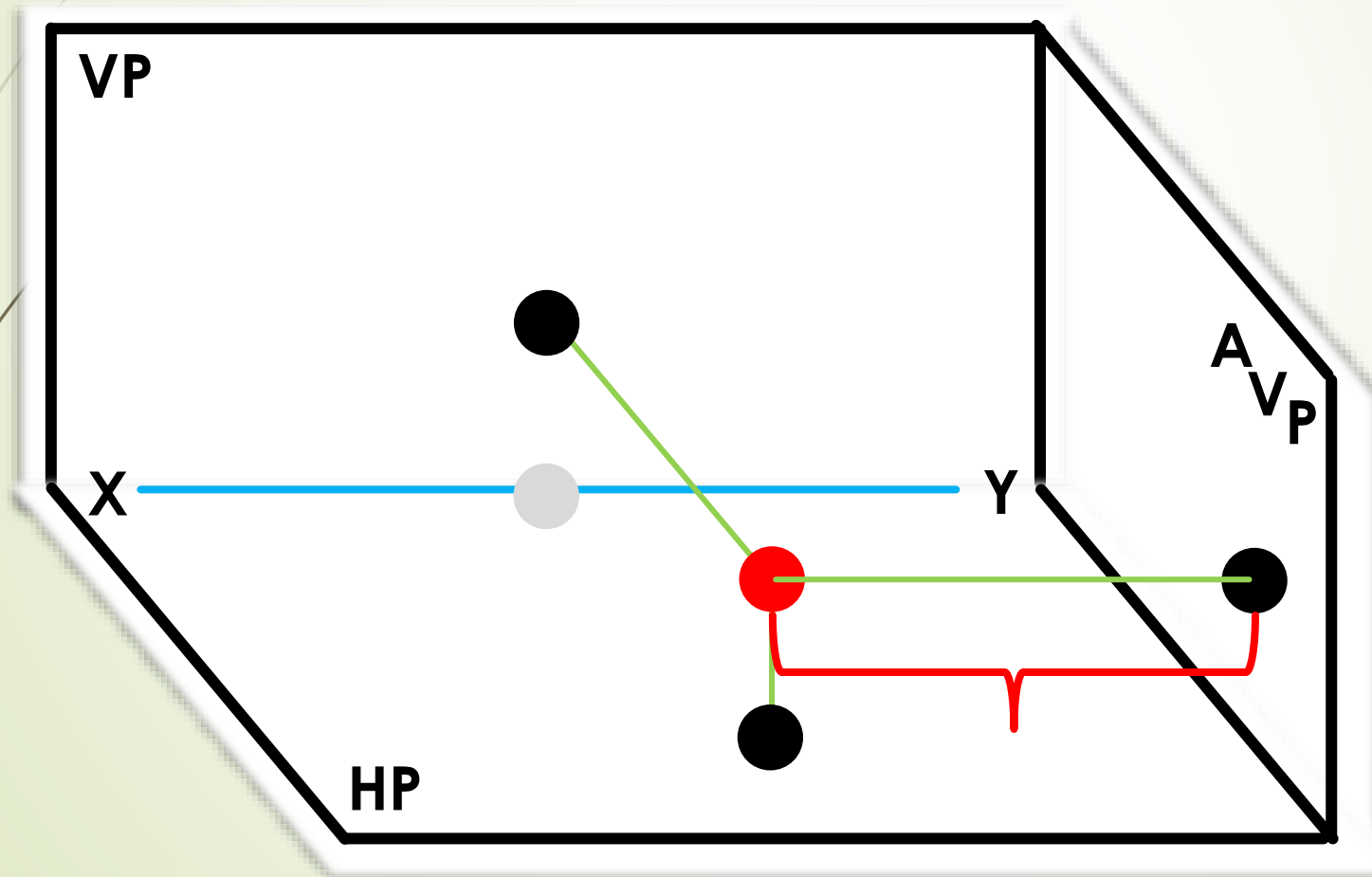
# DESCRIPTIVE GEOMETRY

- An object can be plotted **above** the **horizontal plane (HP)** at any given distance.



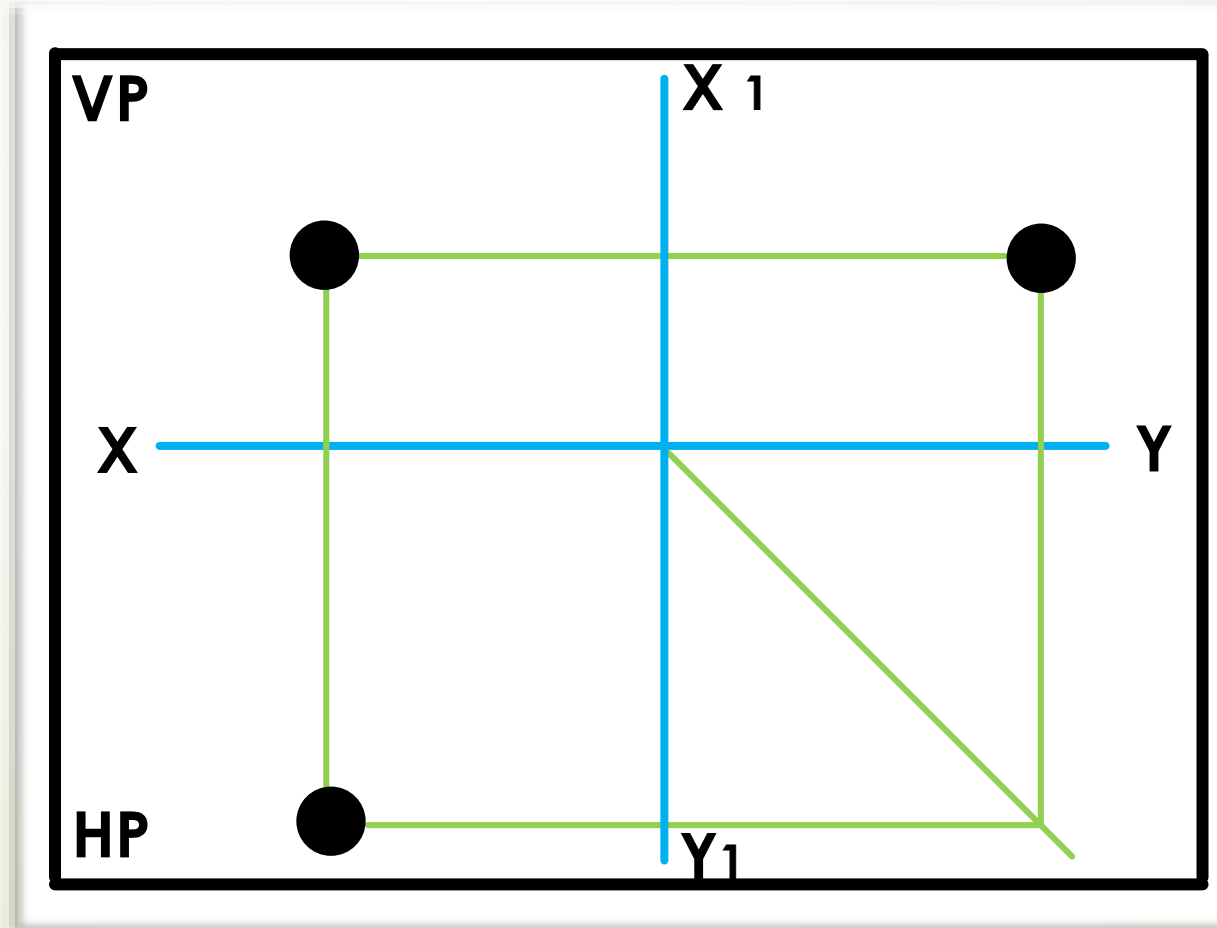
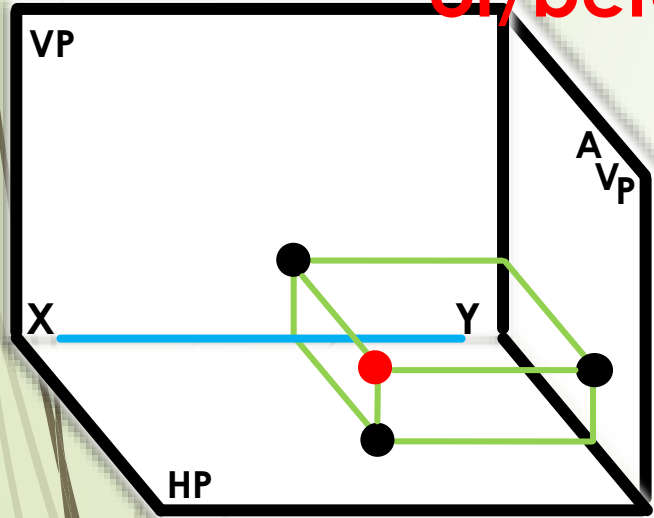
# DESCRIPTIVE GEOMETRY

- An object can be plotted **in front of** an **auxiliary vertical plane (AVP)** at any given distance.



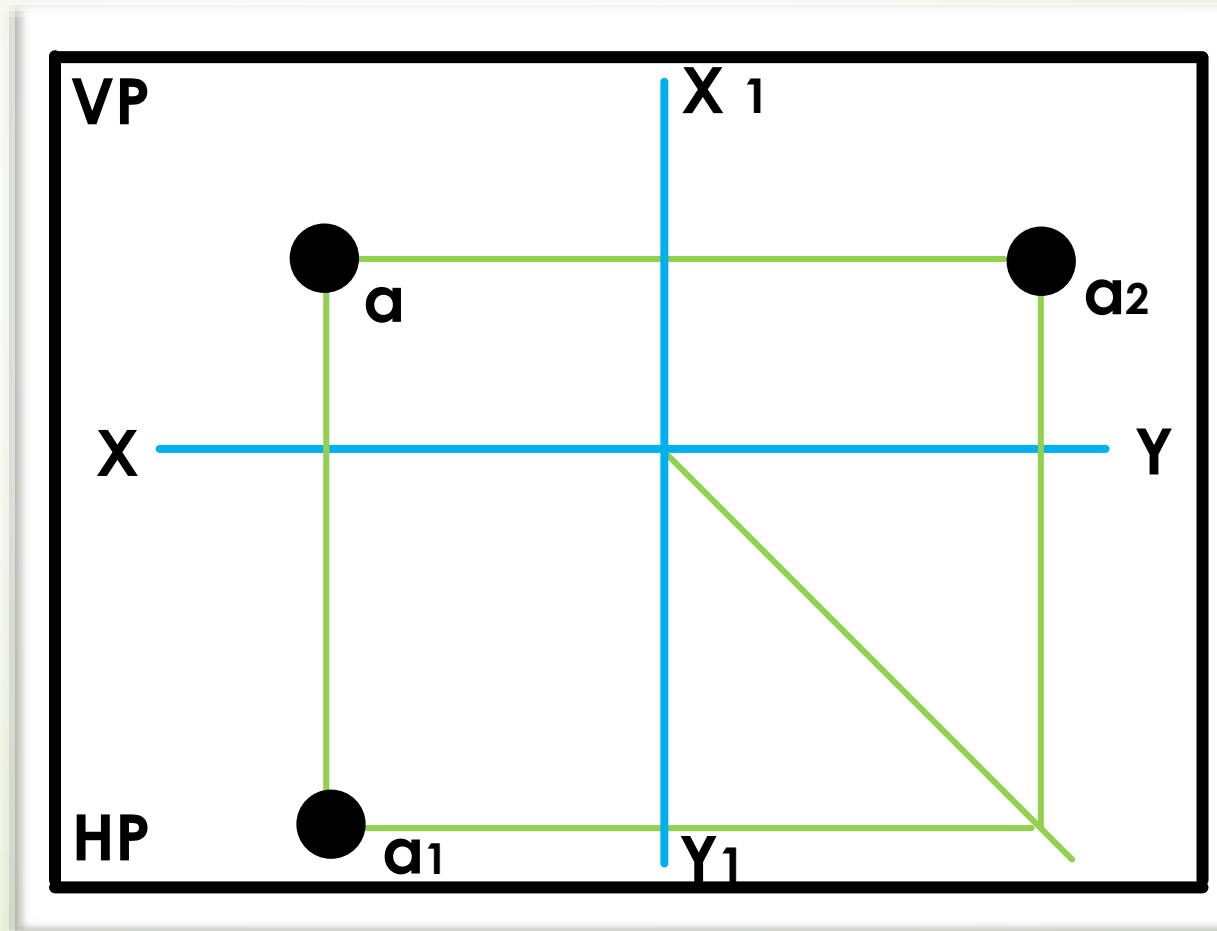
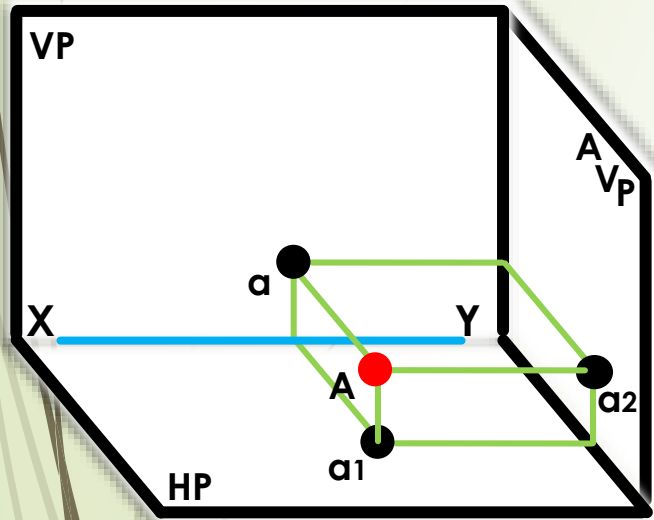
# DESCRIPTIVE GEOMETRY

- An object can be plotted **in front of/before** the vertical plane (XY), **above** the horizontal plane (XY) & **in front of/before** the auxiliary vertical plane ( $X_1Y_1$ ).



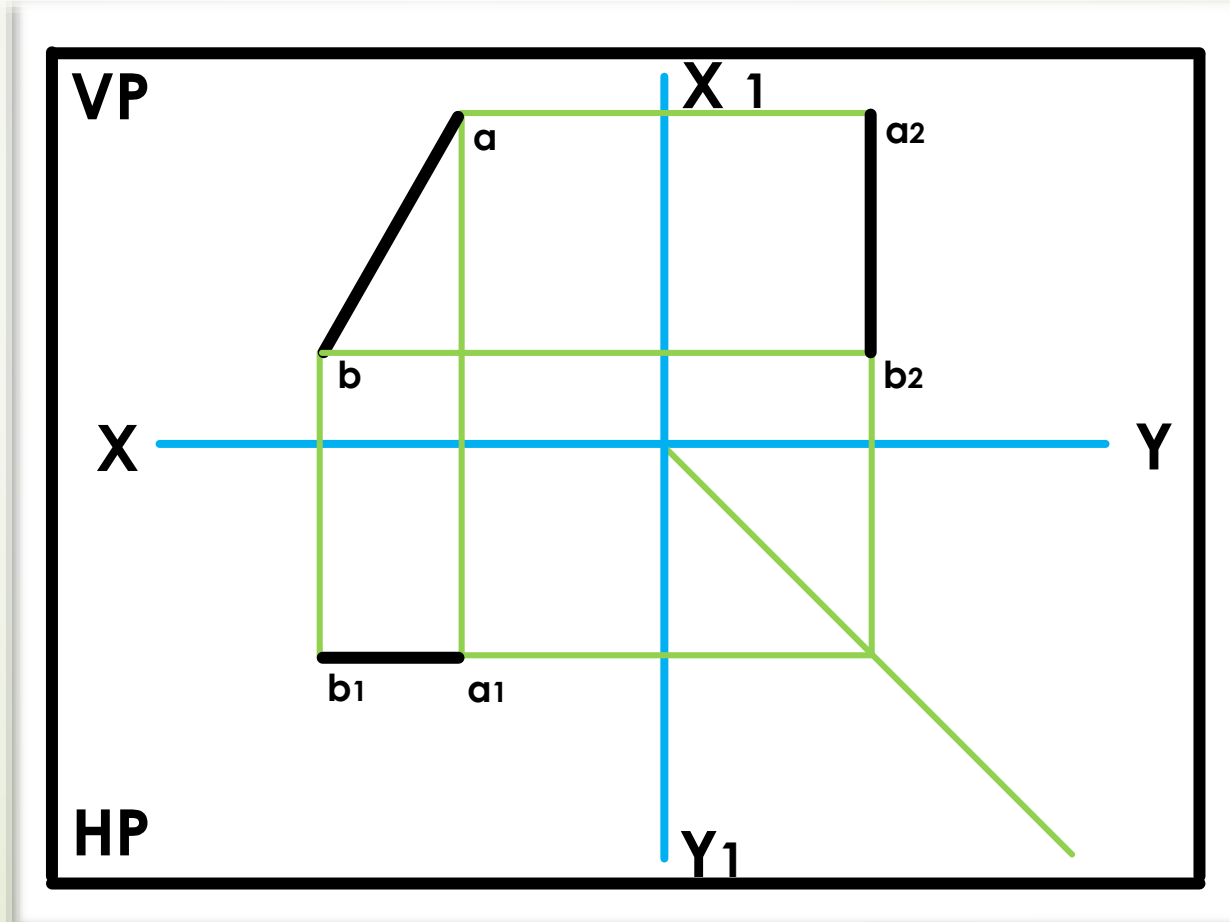
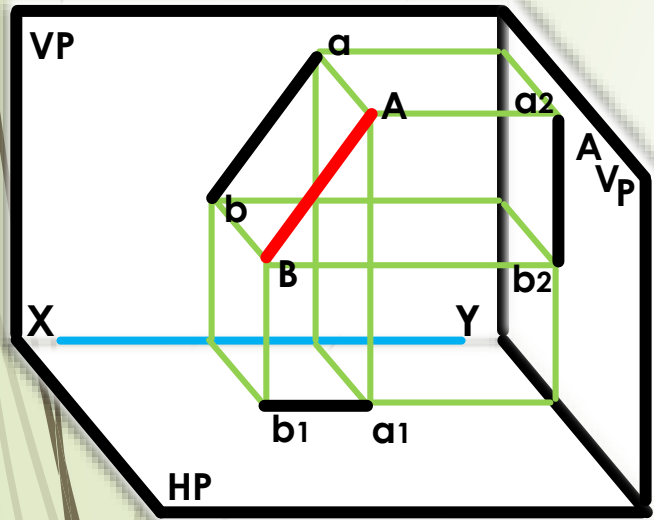
# DESCRIPTIVE GEOMETRY

- An object can be seen as a **single point**.



# DESCRIPTIVE GEOMETRY

- An object can be seen as a **line**.



# DESCRIPTIVE GEOMETRY

- An object can be seen as a **combination of lines**.

