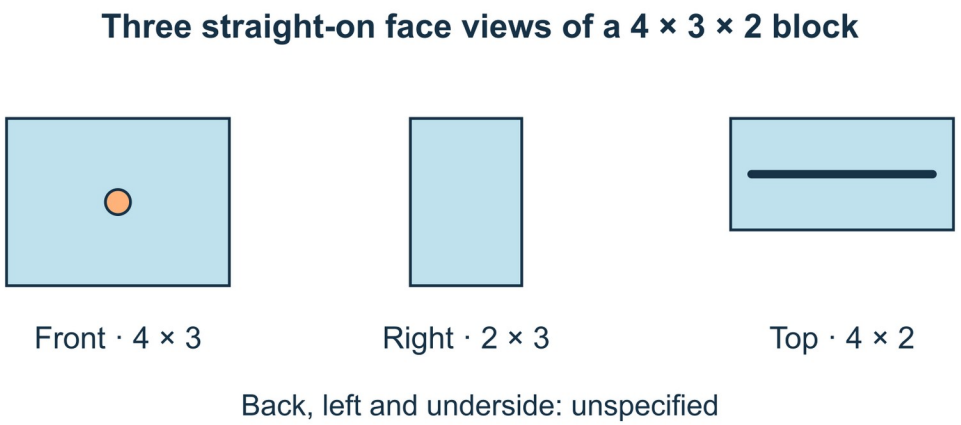
Three views of an invented object

What does each viewpoint reveal or leave hidden?

Compare three straight-on views of an invented block and distinguish a hidden face from a missing feature.

Explore | 15–25 minutes, or two views | The supplied example, read or heard, Optional scrap paper and a pen or pencil

Start here Use an invented block 4 units wide, 3 high and 2 deep. It has one dot on its front face and one stripe on its top face.



Three face views of one block

1 Name the viewpoints

Treat front, right and top as separate straight-on views. Front shows width and height; right shows depth and height; top shows width and depth.

2 Draw the three faces

Sketch front 4 by 3 with a dot, right 2 by 3 blank, and top 4 by 2 with a stripe. These are labelled face views, so you do not need a perspective drawing.

3 Track the information

List where the dot and stripe appear. Not seeing the front dot in the right view does not prove that the block has no dot.

4 Leave unseen faces open

Write a question about the back, left or underside. The supplied model gives no design for them, so do not silently add an answer.

Constructed object front right and top

The block is invented; its dimensions and face markings are supplied facts of the model.

• Front: 4 wide × 3 high, with a dot.

• Right: 2 deep × 3 high, with no marking supplied.

• Top: 4 wide × 2 deep, with a stripe; the other three faces remain unspecified.

What this example can show A view selects information. These schematic views do not establish the appearance of an unshown face or reproduce the perspective of a photograph.

A different way

Compare front and top only, or use spoken labels and rectangles already drawn. No object or model construction is needed.

If you want to go further

Add one clearly declared marking to an unseen face, then make a back view. Distinguish your new design decision from the original specification.

Something to notice

When a feature disappeared from a view, did I mistake hidden for absent?

Read or explore more

Horizon topic Perspective Views

https://launchhorizonhq.com/learn/perspective-views/

Horizon topic Drawing Observation

https://launchhorizonhq.com/learn/drawing-observation/

Horizon topic Art

https://launchhorizonhq.com/learn/art/

National Gallery, London Perspective

https://www.nationalgallery.org.uk/paintings/glossary/perspective

National Gallery of Art The Elements of Art: Line

https://www.nga.gov/educational-resources/elements-art/elements-art-line