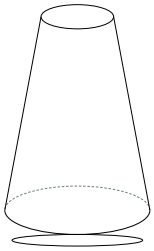
Draw an Upside-Down Cup: Orientation, Rim Ellipse, Base, and Shadow

ONE-PAGE ORIENTATION WORKSHOP

Study the small reference, then use tracing paper or copy the rim box in pencil into the blank frame. Draw its ellipse through all four midpoints; erase your pencil construction box after checking. Keep the printed guide for comparison. Use the placement guide, then draw a small independent cup in the blank frame.

1. Reference / small orientation model



Reduced orientation model / not physical scale

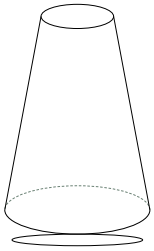
2. Trace or copy the rim guide



6 x 2 cm guide at 100% / four midpoint contacts

Erase your pencil box, not this printed guide.

3. Base-and-shadow placement guide



Base above rim; shadow below in contact

4. Blank independent drawing frame

Choose a small scale to fit. Numeric tasks use full-size frames.

- [ ] Rim below the narrower base; side lines do not cross.
- [ ] Shadow below and touching the lowest rim point, as chosen for this lesson.
- [ ] Center separation and stated widths checked; optional dimensions labelled as choices.

The reduced models and small blank frame are orientation practice. The four task pages that follow have large spaces for the stated centimetre values. Optional heights not supplied by a task remain your choices.

Draw an Upside-Down Cup: Orientation, Rim Ellipse, Base, and Shadow

EXERCISE 1 / DRAW AND RECORD

Copy an upside-down cup reference with rim width 5 cm, rim height 1.5 cm, cup height 7 cm, and base width 2.5 cm. Mark the rim, base, and shadow.

Drawing space / print at 100% for original cm values / leave optional dimensions your choice

Rim width _____ cm; rim height _____ cm; base width _____ cm.

Base-center to rim-center separation _____ cm.

Illustrative choices, if the task does not state them: _____

- ☐ Rim below the narrower base; side lines do not cross.
- ☐ Shadow below and touching the lowest rim point, as chosen for this lesson.
- ☐ Center separation and stated widths checked; optional dimensions labelled as choices.

Use the full-size frame or your own paper. For task 2, trace the provided rectangle or copy it in pencil, then erase only your own pencil guide. For tasks with no height specified, record your chosen height rather than treating an example value as required.

Draw an Upside-Down Cup: Orientation, Rim Ellipse, Base, and Shadow

EXERCISE 2 / DRAW AND RECORD

Trace a flipped rim ellipse inside a 4 cm by 1.2 cm box, then erase the box. Add a base 2 cm wide above the ellipse and a shadow below.



Trace this 4 x 1.2 cm ellipse / no base or shadow supplied

Drawing space / print at 100% for original cm values / leave optional dimensions your choice

Rim width _____ cm; rim height _____ cm; base width _____ cm.

Base-center to rim-center separation _____ cm.

Illustrative choices, if the task does not state them: _____

- ☐ Rim below the narrower base; side lines do not cross.
- ☐ Shadow below and touching the lowest rim point, as chosen for this lesson.
- ☐ Center separation and stated widths checked; optional dimensions labelled as choices.

Use the full-size frame or your own paper. For task 2, trace the provided rectangle or copy it in pencil, then erase only your own pencil guide. For tasks with no height specified, record your chosen height rather than treating an example value as required.

Draw an Upside-Down Cup: Orientation, Rim Ellipse, Base, and Shadow

EXERCISE 3 / DRAW AND RECORD

Draw an upside-down cup with cup height 9 cm, rim width 6 cm, rim height 2 cm, and base width 3 cm. Add a shadow that touches the rim.

Drawing space / print at 100% for original cm values / leave optional dimensions your choice

Rim width _____ cm; rim height _____ cm; base width _____ cm.

Base-center to rim-center separation _____ cm.

Illustrative choices, if the task does not state them: _____

- ☐ Rim below the narrower base; side lines do not cross.
- ☐ Shadow below and touching the lowest rim point, as chosen for this lesson.
- ☐ Center separation and stated widths checked; optional dimensions labelled as choices.

Use the full-size frame or your own paper. For task 2, trace the provided rectangle or copy it in pencil, then erase only your own pencil guide. For tasks with no height specified, record your chosen height rather than treating an example value as required.

Draw an Upside-Down Cup: Orientation, Rim Ellipse, Base, and Shadow

EXERCISE 4 / DRAW AND RECORD

Draw an upside-down cup from memory using a rim width of 5 cm and a base width of 2 cm. Then check orientation with three questions: rim at bottom, base at top, shadow below.

Drawing space / print at 100% for original cm values / leave optional dimensions your choice

Rim width _____ cm; rim height _____ cm; base width _____ cm.

Base-center to rim-center separation _____ cm.

Illustrative choices, if the task does not state them: _____

- ☐ Rim below the narrower base; side lines do not cross.
- ☐ Shadow below and touching the lowest rim point, as chosen for this lesson.
- ☐ Center separation and stated widths checked; optional dimensions labelled as choices.

Use the full-size frame or your own paper. For task 2, trace the provided rectangle or copy it in pencil, then erase only your own pencil guide. For tasks with no height specified, record your chosen height rather than treating an example value as required.