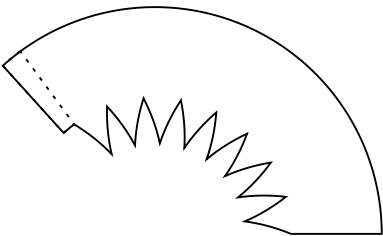


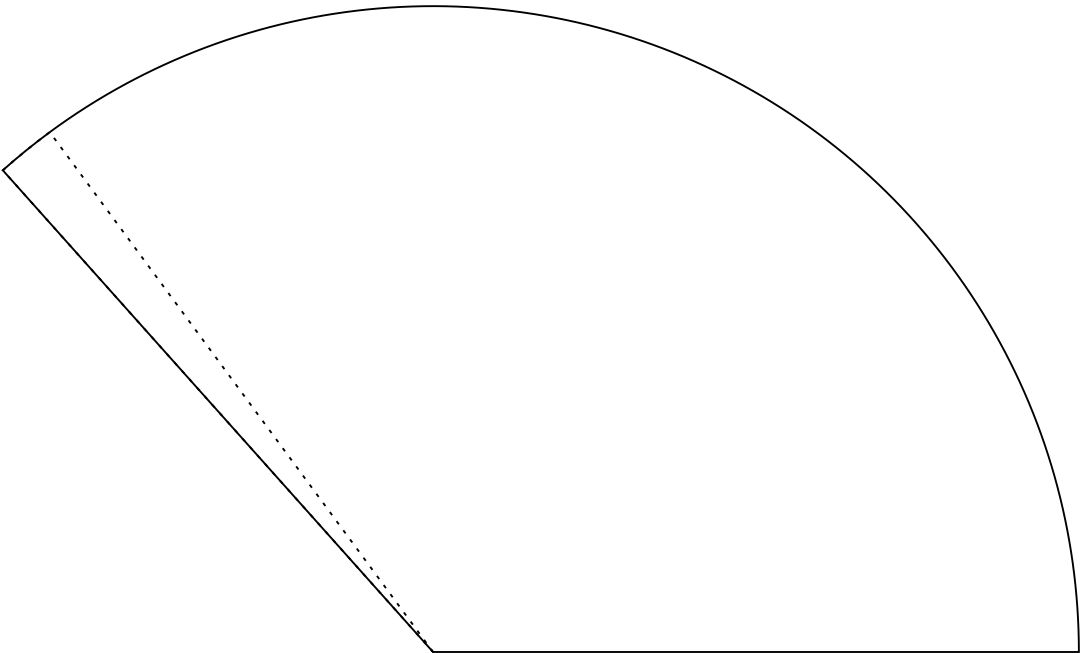
Mini Cone Party Hat

cone-party-hat / 1.0.0 / Letter / Template page 1

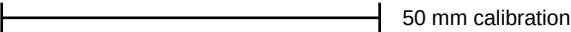
P2 | cut 1
50.13 x 30.00 mm



P1 | cut 1
142.35 x 85.44 mm



Solid: cut | Dashed: valley | Dash-dot: mountain | Dotted: glue



Print at 100% / Actual size. Do not fit to page. Original paper craft template.

Mini Cone Party Hat

cone-party-hat / 1.0.0 / Letter / Assembly instructions

Finished size: 60 mm base diameter x 80 mm tall; 188.50 mm rim circumference

Materials: 140-180 gsm paper; Scissors; PVA glue; Ruler; Round pencil for pre-curling

Original miniature desk/doll decoration, not a child or adult wearable hat. Physical printing, cutting and assembly pending.

P1 slant radius 85.440 mm; useful sector 126.404 degrees. Useful arc 188.496 mm equals $2\pi \times 30$. Extra lap arc is 8 mm at the rim, tapering to zero at the tip.

P2 is optional and included in the preview. Its lower edge is 30 mm down the slope from the apex, teeth reach 12 mm, valleys reach 18 mm; outer lap is 3 mm.

Smooth cone geometry is developable; sampled arcs have tiny chord shortening. Paper/glue thickness and springback are idealized. Collar preview has a 0.3 mm vertical clearance.

Stand on the open circular rim on a level desk. No cord, attachment holes or hidden support is needed for this display-only model. Doll fit depends on its measured head size.

Part inventory (cut each instance once):

P1: Mini hat cone - 8 mm rim lap

P2: Optional eight-point crown collar

1. Print and cut [P1, P2]: Print at 100% actual size and check the 50 mm ruler. Cut P1 around its sector perimeter. Cut P2 including all eight points if desired. Dotted boundaries are glue guides, not cuts or folds.
2. Pre-curl the cone [P1]: Gently curl P1 around a round pencil with the printing inside; do not score the radial edges. Bring the two straight sides together, keeping the apex sharp and the circular rim level.
3. Close the measured lap seam [P1]: Put a thin layer of glue on the dotted wedge, on the face that will touch the inside of the other edge. Slide this wedge UNDER the opposite straight edge. Align that edge exactly with the dotted radial boundary and align both rim ends. The covered arc is 8 mm at the rim, 4 mm halfway to the tip, and zero at the apex. Hold until tacky, then let dry. Check the opening is 60 mm across; do not butt-join the cut edges.
4. Fit the optional crown collar [P1, P2]: Curl P2 with points towards the apex. Wrap around P1 with its smooth lower edge 30 mm down the cone slope from the tip (about 51.9 mm above the desk). Align its seam over the hat seam. Put the dotted end UNDER the opposite radial edge, aligning that edge to the dotted boundary: 3 mm overlap at the smooth lower edge, 1.8 mm at the valley edge. Glue the lap and hold gently; keep all eight points visible.
5. Secure and display [P1, P2]: After the collar seam dries, lift its lower edge slightly and add three tiny glue dots underneath, spaced around the cone; press without crushing. Let dry upright on the rim. The finished hat is 60 mm wide and 80 mm tall. Leave P2 off for the plain version. Actual print/cut/assembly and paper springback still need physical verification.