Phobos

A paper globe, 82 mm across: a scale of 1 : 270 000. The Earth at this scale would be 47.1 m across.

See Phobos turn in the live 3D map:
www.spaceradar.ai/#at=phobos



How to make it

1. Print at actual size on thick paper (160 to 200 g/m2), or glue the print to thin card. 2. Cut round the outside line, tabs and all. Do not cut along the equator: the gores stay joined there. 3. Fold each grey tab back along its dotted line. 4. Curve the gores up one at a time and glue each tab under the edge of the next gore, the north first, then the south; the last tab closes the ball. The top of the sheet is north.

True scale

Phobos's mean radius is 11.1 km (registry/worlds.yaml). At 82 mm across the globe is 1 : 270 000: one millimetre here is 270 m there. Phobos is not round (about 27 x 22 x 18 km): this globe wraps its map on a sphere of its mean radius.

The map

Measured: pictures taken by spacecraft and telescopes, as credited here.
Phobos map: USGS Astrogeology Science Center (Viking Orbiter mosaic, control by P. Stooke), public domain

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