

The *Dreispitz* is sundial and compass in one. We can determine the time and the north direction as well. This compass function, however, depends sensitively on the geographic latitude. It works well only for places with a geographic latitude like that indicated with an error of less than half a degree. When you know the north, the clock works well for latitudes that differ less than 8 degrees from the indicated one.

How to proceed: The model should be cut out neatly. Fold it first along the dashed lines outward. In the next step, fold along the pointed lines inward. Now you can compose the hat. The incomplete segment is placed below the opposite segment. In doing this, a pyramid rises from center. It is like the top of an obelisk. Fold the lines again such that the paper remains without stress.

The lines that cross the hat show the orbit of the shadow for the indicated date. On the indicated latitude. we find the east-west direction by turning the hat until the shadow of its top falls onto the correct calender line. In other places, one must find this direction by other means. The time is read off the marks on the calender line , taking that crossing of the hour loops that corresponds to the date.

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