

FILL THE GAP!

GeoGebra Action Package (GAP) for the ADVENTURES ON PAPER exercise book

Georg Glaeser: Let us play Native American!

Exercise (Glaeser.ggb):

Let's estimate the length of Nazca lines and their enclosed areas with GeoGebra! The attached GeoGebra file is only a rough indication of the solution method. It is worth to make careful estimations!

Insert an image of the hummingbird into GeoGebra. We know that the real length of it is approximately 90 metres. Draw a segment equal to the length of the hummingbird. The length in GeoGebra is presented in centimetres. Calculate the proportion between the real drawing and the image inserted in GeoGebra. Based on the ratio, the distances in the real drawing and e.g. the full length of the entire line is needed for the drawing or to calculate the area enclosed by the bird's body. In order to estimate the length of the line segments we can draw curves, the broken lines on the image, and polygons to estimate the area.

