

Bigfoot Model-Eliciting Activity (MEA) Instruction Sheet

Materials:

A copy of the left and right footprints for each group, measuring tools

Activity Preparation:

Cut a left and right footprint for each group. Set up the two footprints on the table to represent the distance on the individual's walking stride. Tape the footprints on a surface in the group workspace so that the distance between the heel of one shoe and the heel of the other shoe is 35.25 inches. Have the footprints ready at the table as students enter the class.

Note: It is important that you print the image files as is, without reducing the dimensions of the image. More than likely, you will need to print the image on two separate pieces of paper and tape the two parts together. The dimensions of the image of the sole of the shoe are 6.25in X 14.66in, which are the measurements of Shaquille O'Neal's size 22 EEEE athletic shoe.

Bigfoot Model Exploration (MXA) Activities

Pencil of lines Activity

This activity is based upon a solution a group of students produced for the Bigfoot Problem. The students used a pencil of three lines, or three lines that intersect in one point, and the ratios of the line segments produced by intersecting the pencil of lines with parallel lines.

Proportional Faces Activity

In this activity, students analyze the proportionality of famous faces.

Bigfoot Scatterplot Activity

This activity draws upon the student's power of prediction based on existing data.



