

Lesson 11-1

Example 1

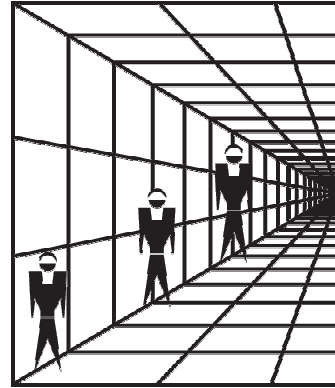
Make a statement about the three men in this drawing. Determine if the statement is true or false.

Solution

The man farthest back looks largest and the one closest to the front looks smallest.

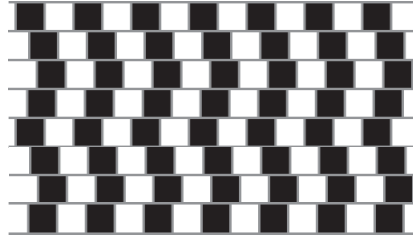
Statement The man farthest back is largest and the one closest to the front is smallest.

Measure all three figures with a ruler. You will find that they are all the same size. Therefore, the statement is false.



Example 2

Make two statements about this figure, one about the size of the squares in each row, and one about the gray lines.

**Solution**

It looks like the squares in each row either get progressively larger or progressively smaller as you go from left to right in each row. It also looks like the gray lines are wavy, not straight.

Statement 1 In each row of the design, the squares either go from smaller to larger or from larger to smaller as you move from left to right, depending on how the gray lines are slanted.

Statement 2 The gray lines are wavy, not straight.

Use a ruler to measure the sides of several squares within a row and then squares in different rows. You will find that all of the white squares are the same size, and also that all of the black squares are the same size, although the white squares are slightly larger than the black ones. So, statement 1 is false.

Place a ruler along several of the gray lines. You will find that all of them are straight. (However, because the white squares are slightly larger than the black ones, these lines are not parallel.) Therefore, statement 2 is also false.