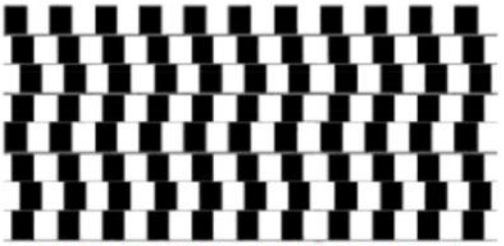
1.2

Friday, February 3, 2017 5:51 PM

FOM 11 **1.2 Exploring the Validity Of Conjectures**

Some conjectures initially seem to be valid, but are shown not to be valid after more evidence is gathered.

Example 1: Make a conjecture about the lines below:



Are these horizintal lines parallel or do they slope?

Conjecture:
The horizontal lines are not parallel.

When checked, this conjecture is invalid (not true).
The lines are parallel.

Example 2: Make a conjecture about the grey rectangles:

Conjecture:
The rectangles on top are darker than the rectangles on the bottom.

The rectangles are in fact the same colour.

The best we can say about a conjecture reached through inductive reasoning is that there is **evidence either to support or deny it**.

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