

# W2 - Critical Thinking

## Critical Thinking is Simple

S	SOURCE	Question the data source – is it biased or unreliable?
I	IRRELEVANT	Identify irrelevant and relevant data
M	MISSING	Identify missing data that are needed
P	PRESENTATION	Ensure the data are presented appropriately
L	ALTERNATIVE	Identify possible alternative explanations
E	EVIDENCE	Verify that the assertions are supported by evidence

Correlation does not mean **causation**!

**Assertions** - things we believe to be true based on evidence. IS, ARE WILL BE

**Suppositions** - things that we believe might be the case. MAYBE

**Fact:** Birmingham has a higher population than Manchester

**Opinion:** Birmingham is better than Manchester