

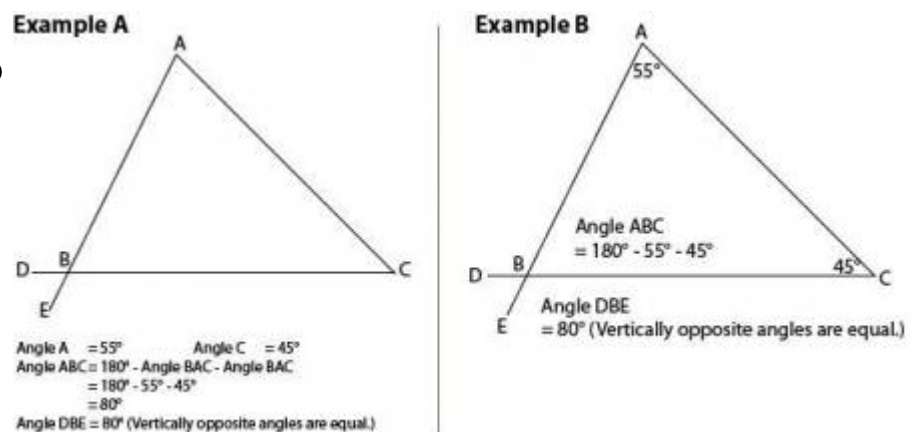
# The Spatial Contiguity Principle

## Theory

The spatial contiguity principle suggests that related information sources should be **spatially integrated** in order to reduce attention-splitting and facilitate learning.

## Practice

An example of a solved mathematical problem taking into consideration and ignoring the spatial contiguity principle is presented in image on the right. Example A shows separated text and graph (two information sources), whereas example B shows same two information sources, but this time spatially integrated. For another example see work of Florax and Ploetzner<sup>1)</sup>.



## Research status

Experiments have confirmed importance of this principle<sup>2)</sup>, yet similar results were sometimes obtained using not necessarily spatial contiguity, but segmenting text and labeling the image.<sup>3)</sup>

1)

Florax, Mareike, and Rolf Ploetzner. What contributes to the split-attention effect? The role of text segmentation, picture labelling, and spatial proximity. Learning and Instruction 20, no. 3: 216-224. June 2010.

2)

Chandler, P. and Sweller, J. Cognitive load theory and the format of instruction. Cognition and Instruction, 8(4), 293-332. 1991.

3)

[spatial\\_contiguity\\_principle](#)

From:  
<https://www.learning-theories.org/> - Learning Theories

Permanent link:  
[https://www.learning-theories.org/doku.php?id=research\\_results:spatial\\_contiguity\\_principle&rev=1307542116](https://www.learning-theories.org/doku.php?id=research_results:spatial_contiguity_principle&rev=1307542116)

Last update: 2023/06/19 15:49

