

Reflection and Mirrors

Names: _____

Improving Your Image Lab Test

Question:

What is the mathematical relationship between the number of images formed by a combination of two plane mirrors and the angle between the mirrors?

Purpose:

To determine the mathematical equation that relates the number of images (**N**) formed by a set of two plane mirrors to the angle (θ) between the mirrors?

Data:

Angle (θ)	N
180°	
120°	
90°	
72°	
60°	
45°	
40°	

Conclusion/Discussion:

Make a claim: state the mathematical equation that relates the number of images (**N**) to the angle (θ) between the mirrors.

Provide Evidence/Reasoning: Discuss the evidence and reasoning that support the equation. Be thorough and convincing. (Use the back side of this sheet if necessary ... and its probably necessary.)