

Lab: The Scientific Method - Optical Illusions

BIOLOGY

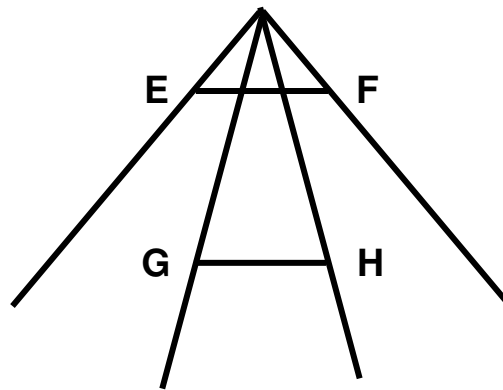
Directions: *Make your guess and then measure with a metric ruler.*

1. Which line is longer, **AB** or **CD**? _____



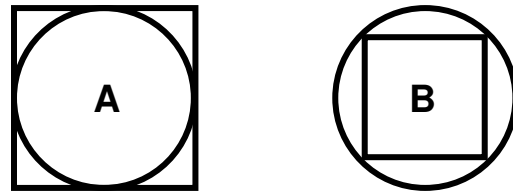
What are the actual lengths of the two lines **AB** = _____ **CD** = _____

2. Which line is longer **EF** or **GH**? _____

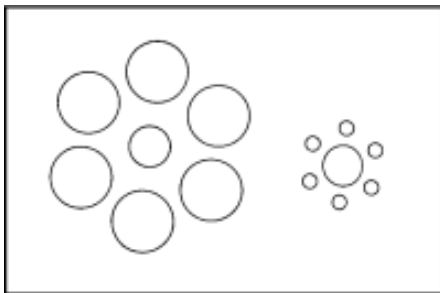


What are the actual measurements? **EF** + _____ **GH** = _____

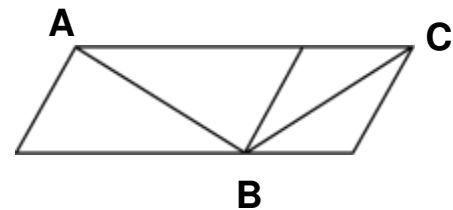
3. Which Circle is larger? **A** or **B** _____



4. Which center circle is largest? _____



5. Which line appears longest, **AB** or **BC**? _____
Which is the longest? _____

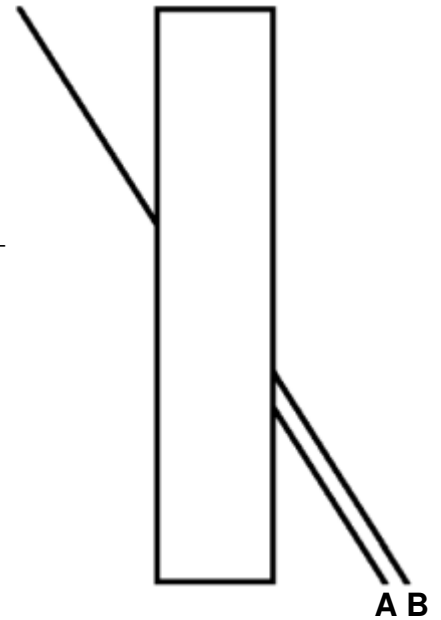


6. Do you only see black shapes on white - or a word?



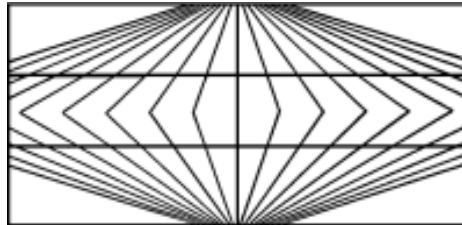
7. Which line continues straight through the diagram, **A** or **B**? _____

Check it with a ruler! Which one is it?



8. Look at the pairs of lines in the three diagrams below. Do they look straight or curved? _____

Check them with a ruler. Are they straight or curved? _____

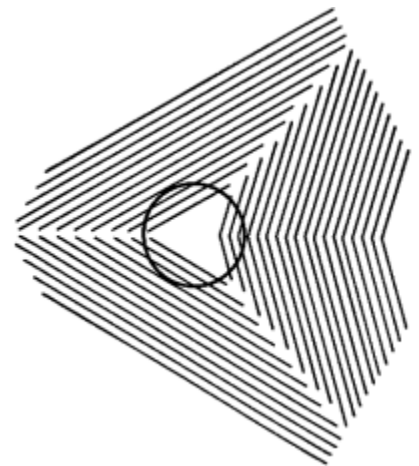


Why do you think that they look curved? Give me your best hypothesis.

9. How would you describe the “rounded” shape on the inside of this structure?

It is actually a perfect circle.....check it!

Why do you think people perceive it differently?



10. Look at the box to the right. Describe what you see when you stare at it. Why do you think it appears the way it does?

