

Geometry in the Natural World

Basic Geometry · Practice Test · 15 Questions

1. What common geometric shape does a honeycomb cell typically resemble?

- A) Circle
- B) Square
- C) Triangle
- D) Hexagon

2. What shape is often used to describe the overall structure of a sunflower's seed arrangement?

- A) Spiral
- B) Square grid
- C) Circle
- D) Triangle pattern

3. The cross-section of many tree trunks, when cut, reveals a shape closest to a:

- A) Rectangle
- B) Oval
- C) Circle
- D) Square

4. A spiderweb is often designed with many radial lines and concentric circles, resembling a:

- A) Star
- B) Spiral
- C) Circle
- D) Diamond

5. What basic geometric shape is formed by the petals of a daisy flower?

- A) Triangle
- B) Circle
- C) Oval
- D) Rectangle

6. The stripes on a zebra are primarily composed of parallel lines, which are a fundamental element in:

- A) Area calculations
- B) Angles
- C) Perimeter
- D) Volume

7. Many bird eggs have a shape that is best described as:

- A) Spherical
- B) Cylindrical
- C) Ovoid
- D) Conical

8. The hexagonal structure of an ant's eye helps it to see in multiple directions, similar to a:

- A) Telescope
- B) Microscope
- C) Mosaic
- D) Prism

9. What geometric shape is often seen in the wings of a butterfly?

- A) Sphere
- B) Cube
- C) Triangle
- D) Symmetry (reflection)

10. A single raindrop, when falling, is often close to the shape of a:

- A) Cube
- B) Pyramid
- C) Sphere
- D) Cylinder

11. The branches of many trees tend to grow in a pattern that can be described as:

- A) Straight lines
- B) Fractals (branching patterns)
- C) Circles
- D) Squares

12. What common geometric shape is the basis for the arrangement of cells in a coral reef?

- A) Triangle
- B) Circle
- C) Hexagon
- D) Square

13. The outline of a clam shell often resembles a:

- A) Triangle
- B) Square
- C) Circle
- D) Curved line (arc)

14. Many crystals found in nature, like quartz, often form geometric shapes such as:

- A) Blobs
- B) Irregular lumps
- C) Prisms and pyramids
- D) Spirals

15. What geometric concept describes the equal halves that a perfectly symmetrical leaf can be divided into?

- A) Parallelism
- B) Perpendicularity
- C) Symmetry
- D) Rotation