Scientific Facts About Colors and Shapes

Science · Answer Key · 12 Questions

1. Which of these shapes has exactly three sides?

A) Square
B) Circle
C) Triangle
D) Rectangle

2. What is the primary color of light that has the longest wavelength in the visible spectrum?

A) Blue
B) Green
C) Red
D) Yellow

3. Which geometric shape is defined as a round plane figure where all points on the edge are an equal distance from the center?

A) Square
B) Oval
C) Circle
D) Pentagon

4. When sunlight is refracted through a prism, it separates into a spectrum of colors. Which color appears at the top of the rainbow?

A) Red
B) Violet
C) Blue
D) Green

5. How many sides does a regular hexagon have?

A) 4
B) 5
C) 6
D) 8

6. Which color is produced when all primary colors of light are combined?

A) Black
B) White
C) Brown
D) Grey

7. What is the name of a shape with four equal sides and four right angles?

A) Rhombus
B) Square
C) Trapezoid
D) Parallelogram

8. In the visible light spectrum, which color has the shortest wavelength?

A) Red
B) Orange
C) Violet
D) Yellow

9. A cube is a three-dimensional shape that has how many identical square faces?

A) 4
B) 6
C) 8
D) 12

10. Which of these primary colors cannot be created by mixing other colors together?

A) Green
B) Orange
C) Red
D) Purple

11. What is the geometric term for a shape with five sides?

A) Hexagon
B) Octagon
C) Pentagon
D) Heptagon

12. Which part of the human eye is responsible for detecting color?

A) Lens
B) Cornea
C) Cone cells
D) Pupil

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