

Colors and Shapes Essentials

Mathematics And Art Theory · Answer Key · 25 Questions

1. Which geometric shape has exactly five sides?

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

2. What are the three traditional primary colours in art?

- A) Red, Yellow, Blue**
- B) Red, Green, Blue
- C) Cyan, Magenta, Yellow
- D) Black, White, Grey

3. How many sides does a regular nonagon have?

- A) 7
- B) 8
- C) 9**
- D) 10

4. What color results from mixing blue and yellow pigment?

- A) Purple
- B) Orange
- C) Green**
- D) Brown

5. A shape with all sides equal and four right angles is a:

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

6. Which of these is a secondary color created by mixing red and yellow?

- A) Green
- B) Orange**
- C) Purple
- D) Violet

7. What is the mathematical term for a shape with no corners or vertices?

- A) Ellipse
- B) Circle**
- C) Oval
- D) Sphere

8. How many internal angles does a hexagon have?

- A) 5
- B) 6**
- C) 7
- D) 8

9. What do you call a polygon with eight sides?

- A) Hexagon
- B) Heptagon
- C) Nonagon
- D) Octagon**

10. Which color is at the top of a standard rainbow?

- A) Red**
- B) Violet
- C) Yellow
- D) Blue

11. What type of shape is a triangle with three unequal sides?

- A) Equilateral
- B) Isosceles
- C) Scalene**
- D) Right

12. What primary color is obtained by removing all pigment from white light?

- A) Yellow
- B) Blue
- C) Red
- D) None, white is a mix of all colors**

13. A quadrilateral with only one pair of parallel sides is called a:

- A) Rectangle
- B) Trapezoid**
- C) Rhombus
- D) Square

14. Which color is technically defined as the absence of all visible light?

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

15. A decagon has how many sides?

- A) 8
- B) 10**
- C) 12
- D) 20

16. Which of these colors is a shade of purple?

- A) Indigo**
- B) Cyan
- C) Magenta
- D) Lime

17. What do you call a 3D shape with six equal square faces?

- A) Rectangular Prism
- B) Sphere
- C) Cube**
- D) Pyramid

18. What color is the complementary color to red on a standard color wheel?

- A) Blue
- B) Green**
- C) Yellow
- D) Orange

19. A rhombus is a type of:

- A) Triangle
- B) Quadrilateral**
- C) Pentagon
- D) Hexagon

20. What is the perimeter of a shape?

- A) The area inside
- B) The distance around the outside**
- C) The number of angles
- D) The thickness of lines

21. Which of these is not a polygon?

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

22. What color is produced by mixing equal parts of red and blue?

- A) Green
- B) Purple**
- C) Orange
- D) Brown

23. How many degrees are in the sum of the interior angles of a triangle?

- A) 90
- B) 180**
- C) 270
- D) 360

24. What is a polygon with seven sides called?

- A) Heptagon**
- B) Hexagon
- C) Nonagon
- D) Decagon

25. Which color is known as a 'neutral' color in design?

- A) Red
- B) Blue
- C) Grey**
- D) Yellow