Shapes

Grade 2

Name: _____ **Date:** _____

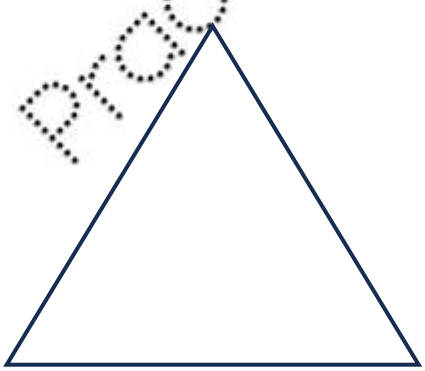
Section A: Shape Recognition

Instructions: Look at each shape carefully and write its name.

1.

Shape name: _____

2.

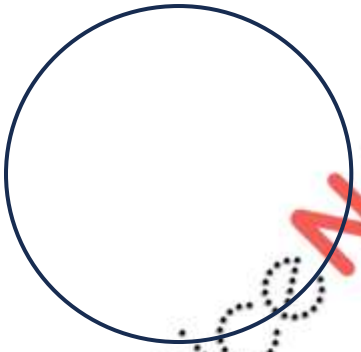


Shape name: _____

3.

Shape name: _____

4.



Shape name: _____

5. **Which shape has no corners? _____**
6. **Which shape has exactly 3 sides? _____**
7. **Which shape has 4 equal sides and 4 corners? _____**
8. **Which shape has 4 sides but only opposite sides are equal? _____**
9. **A pizza slice is which shape? _____**
10. **A wheel is which shape? _____**

Section B: Counting Sides and Vertices

Instructions: Count and write the number of sides and vertices for each shape.

11. **Square**
    - Number of sides: _____
    - Number of vertices: _____
12. **Triangle**
    - Number of sides: _____
    - Number of vertices: _____
13. **Rectangle**
    - Number of sides: _____
    - Number of vertices: _____
14. **Circle**
    - Number of sides: _____
    - Number of vertices: _____
15. **If a shape has 4 corners, how many sides does it have?** _____
16. **If a shape has 3 sides, how many vertices does it have?** _____
17. **Can a shape have 2 sides? Yes or No?** _____
18. **How many corners does a triangle have?** _____
19. **Which shape has the most vertices: square, triangle, or circle?** _____
20. **How many sides do a square and a triangle have together?** _____ (Add them!)

Section C: True or False

Instructions: Write T for True and F for False.

21. All sides of a square are equal. _____
22. A circle has 4 corners. _____
23. A rectangle has 2 long sides and 2 short sides. _____

24. A triangle can have all sides of different lengths. _____

25. Vertices and corners mean the same thing. _____

26. A square is a type of rectangle. _____

27. Circles can roll because they have no corners. _____

28. All rectangles are squares. _____

29. A triangle has more sides than a square. _____

30. The opposite sides of a rectangle are equal. _____

Section D: Drawing Shapes

Instructions: Draw the shapes as described. Use a ruler for straight lines!

31. Draw a square with all sides equal.

[Space for drawing]

32. Draw a triangle with a pointed top.

[Space for drawing]

33. Draw a rectangle that is longer than it is tall.

[Space for drawing]

34. Draw a circle using a round object to trace.

[Space for drawing]

35. Draw a shape with 3 corners.

[Space for drawing]

36. Draw a shape with 4 equal sides.

[Space for drawing]

37. Draw a shape with no corners at all.

[Space for drawing]

38. Draw a shape with 4 vertices and 2 long sides.

[Space for drawing]

39. Draw any triangle you like.

[Space for drawing]

40. Draw a square and then draw a circle around it.

[Space for drawing]

Section E: Real-World Shape Identification

Instructions: Match each object to its shape by writing the shape name.

41. A clock face → _____
42. A slice of pizza → _____
43. A door → _____
44. A dice face → _____
45. A roof of a house → _____
46. A coin → _____
47. A book cover → _____
48. A yield traffic sign → _____
49. A basketball → _____
50. A cracker → _____

Section F: Properties Challenge

Instructions: Answer these challenging questions about shape properties.

51. **How is a square different from a rectangle?**

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52. **What is special about all the corners of a square?**

---

53. **Why can a circle roll but a square cannot?**

---

54. **Name 2 shapes that have exactly 4 sides.** _____ and _____
55. **Which shape is the strongest for building? (Hint: We learned this!)**

---

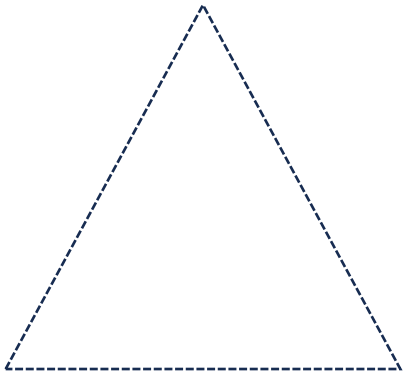
56. **If you cut a square diagonally from corner to corner, what two shapes do you get?**

---

57. **Can two rectangles look different from each other? Yes or No?**

---

58. **Draw dots to show where the vertices are on this triangle:**



59. **Circle all the shapes below that have 4 corners:**

Square, Triangle, Circle, Rectangle

60. **What do we call the straight line between two vertices?**

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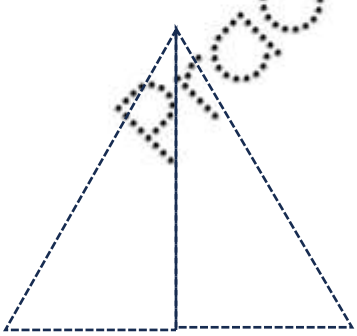
61. **How many triangles can you find in this picture?**



Answer: _____

62. **If I draw 4 dots and connect them with straight lines, and all sides are equal, what shape did I make?**

---

63. **Name one thing that is shaped like a rectangle in your classroom.**

---

64. **True or False: A side is the same as a corner.** _____

65. **Which shape has more sides: a rectangle or a triangle?**

Section G: Pattern Recognition

Instructions: Look at the pattern and answer the questions.

Pattern:  ___

66. What shape comes next? _____

67. What is the pattern rule? _____

68. **Pattern:**  ___ ___ ___ Fill in the next 3 shapes: _____ _____ _____

69. **Create your own pattern using 3 different shapes. Draw it below:**

[Space for pattern]

70. **Pattern:**  ___ What comes next? _____

71. How many squares are in this pattern?  Answer: _____

72. **Which shape appears most often?**  Answer: _____

73. **Pattern:**  ___ ___ Complete the pattern: _____ _____

74. **If the pattern is: Big circle, small square, Big circle, small square...** What would be the 7th shape in the pattern? _____

75. **Create a pattern where rectangles appear every other shape.**

[Space for pattern]

Section H: Comparison Questions

Instructions: Compare the shapes and answer carefully.

76. **Which has more corners: a square or a triangle?**

---

77. **Which shape has fewer sides: a rectangle or a circle?**

---

78. **Do a square and rectangle have the same number of vertices? Yes or No?**

---

79. **List these shapes from most sides to least sides:** Triangle, Square, Circle

Most sides: _____ → _____ → Least sides: _____

80. **Which is bigger: a shape with 4 corners or a shape with 3 corners?** (Trick question! Think carefully!) _____

81. **If shape A has 3 sides and shape B has 4 sides, how many more sides does shape B have?**

---

82. **Which shape is most different from the others: square, rectangle, triangle? Why?**

Because: _____

83. **Can a square fit inside a circle? Yes or No? _____**

84. **Which takes up more space: a big triangle or a small square?**

---

85. **How many circles would you need to make a straight line?** (Trick question!)

_____

Section I: Word Problems

Instructions: Read carefully and solve these shape problems.

86. **Maya has 3 square crackers and 2 round cookies. How many corners do all the crackers have together?**

Answer: _____ corners

87. **A triangle and a square are sitting on a table. If you count all their sides together, how many sides are there in total?**

Answer: _____ sides

88. **Raj cut his sandwich into 4 triangular pieces. How many corners does each piece have?**

Answer: _____ corners per piece

89. **In a toy box, there are 5 circular balls and 3 square blocks. How many shapes have corners?**

Answer: _____ shapes with corners

90. **A picture frame is shaped like a rectangle. It has 2 sides that are 10 cm long and 2 sides that are 5 cm long. How many vertices does the frame have?**

Answer: _____ vertices

91. **Emma drew 2 triangles and 1 square. How many vertices did she draw in total?**

Answer: _____ vertices

92. **A pizza is cut into 8 triangle slices. How many corners does each slice have?**

Answer: _____ corners

93. **If you stack 3 square blocks on top of each other, how many corners can you see from the front?**

Answer: _____ corners

94. **A fence is made of 10 rectangular panels. Each panel has 4 corners. How many corners are there in total?**

Answer: _____ corners

95. **Tom draws a shape with 3 straight sides. His friend Sara draws a shape with 4 equal sides. How many sides did they draw altogether?**

Answer: _____ sides

Section J: Advanced Thinking

Instructions: These are challenge questions! Think hard!

96. **Can you draw a shape with 2 vertices and 2 sides? Try it! If not, explain why.**

[Space for drawing or explanation]

---

97. **If you combine a square and a triangle by putting them next to each other, how many corners does the new shape have? (Count carefully!)**

Answer: _____ corners

98. **A shape has 4 sides, but not all sides are equal. It also has 4 corners. What could this shape be? Give 2 possible answers.**

1. _____

2. _____

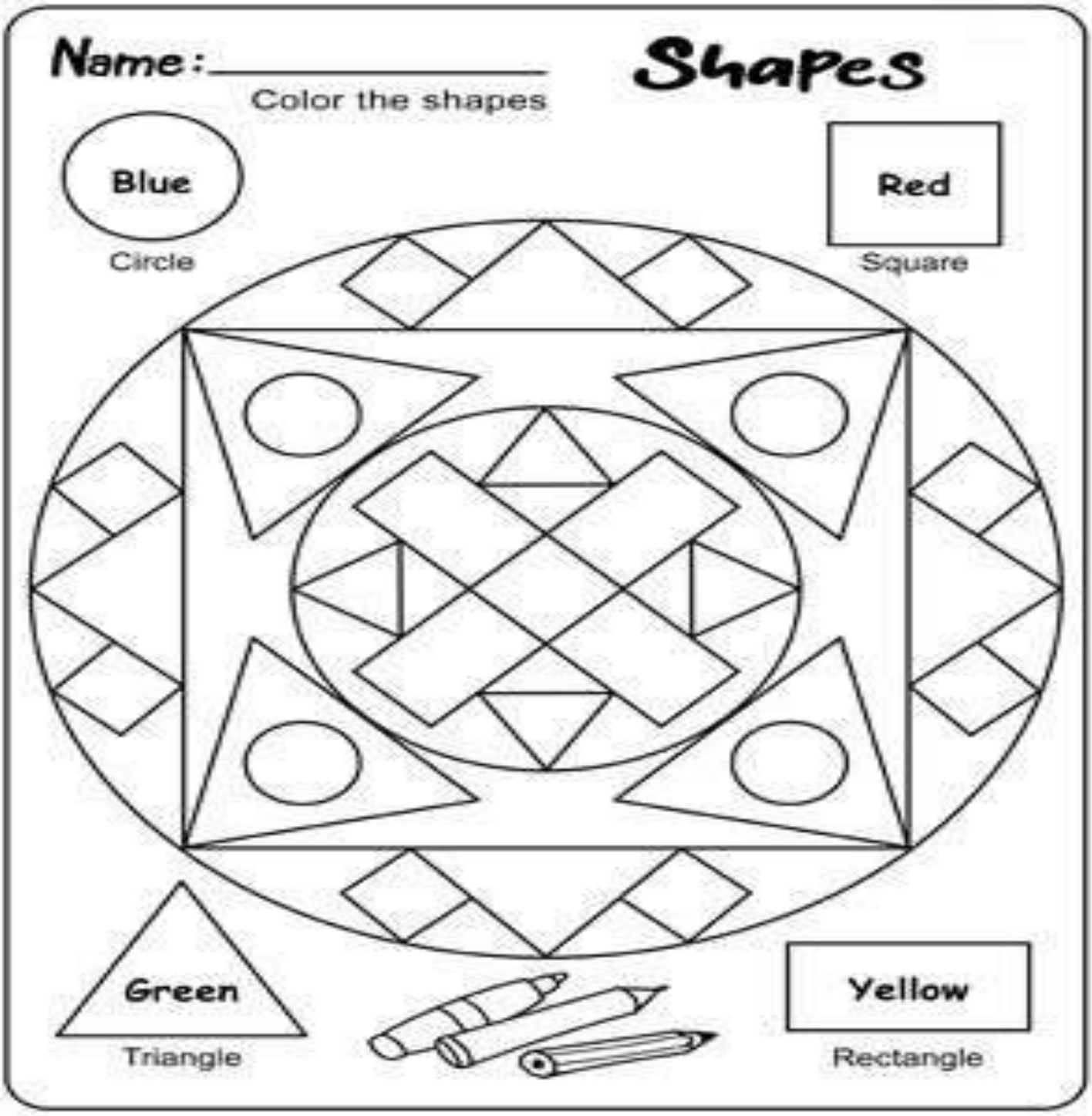
99. **Imagine cutting a circle in half. What shape is the edge where you cut? (Hint: Is it curved or straight?)**

Answer: _____

100. **SUPER CHALLENGE:** Draw a picture using ONLY triangles, squares, rectangles, and circles. Your picture should use at least 2 of each shape. Draw it below and label what your picture shows!

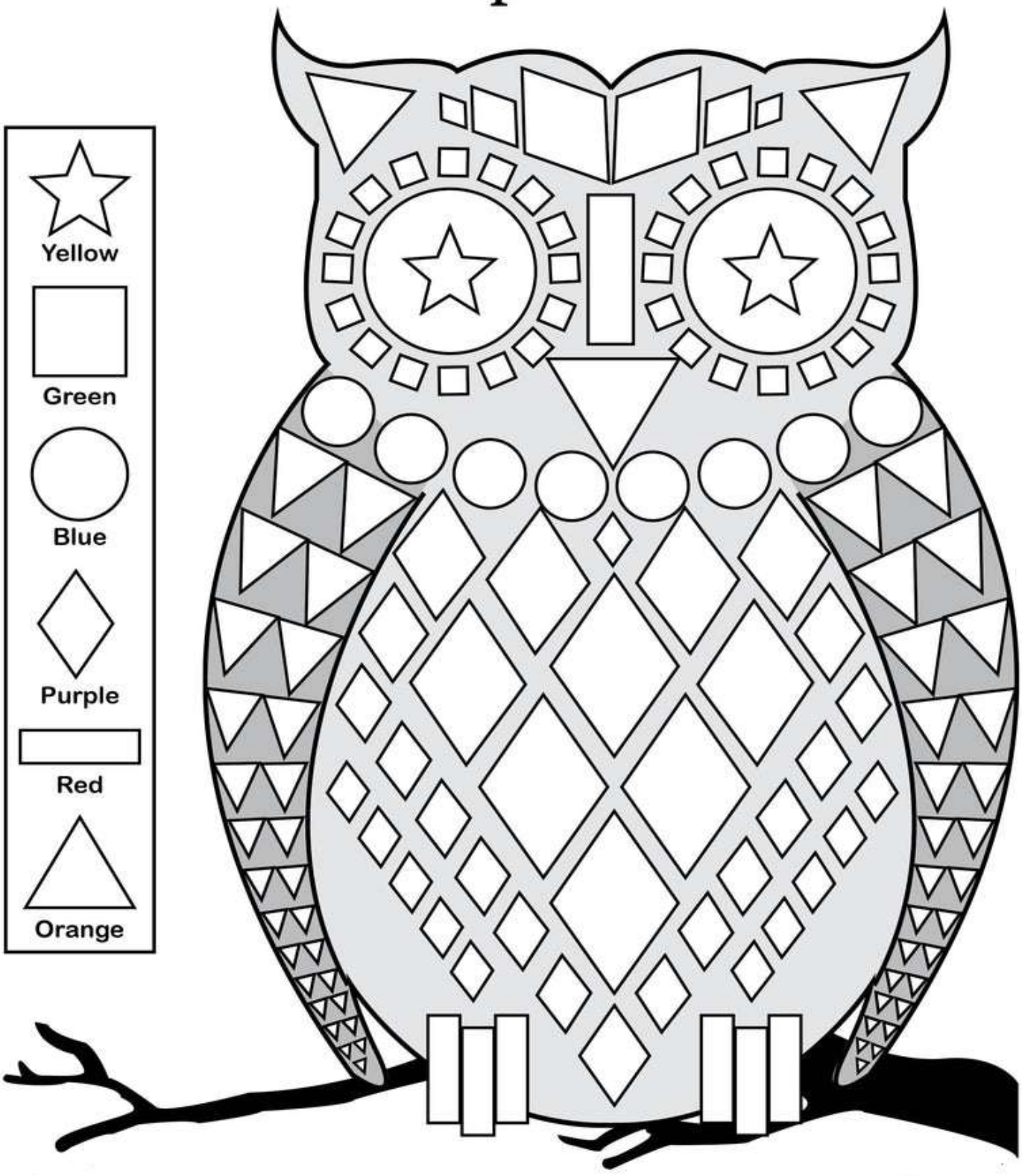
[Large space for creative drawing]

My picture shows: _____


Name: _____
Shapes
Color the shapes
Blue
Circle
Red
Square
Green
Triangle
Yellow
Rectangle

Name: _____

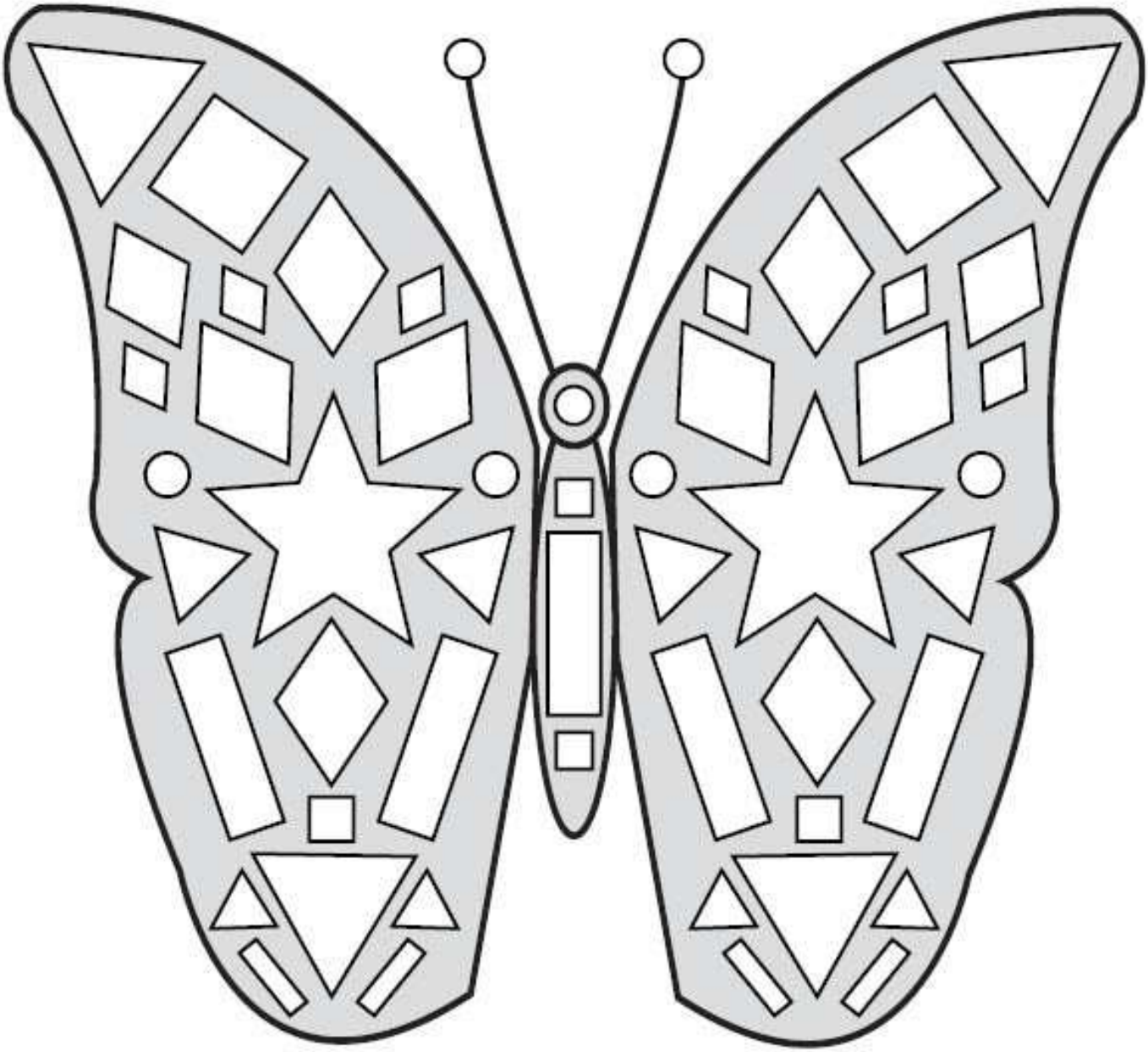
Color the shapes in the owl.



Name: _____

Color the shapes in the butterfly.

Yellow	Red	Orange	Purple	Blue	Green



ANSWER KEY

Section A: Shape Recognition

1. Square
2. Triangle
3. Rectangle
4. Circle
5. Circle
6. Triangle
7. Square
8. Rectangle
9. Triangle
10. Circle

Section B: Counting Sides and Vertices

11. Sides: 4, Vertices: 4
12. Sides: 3, Vertices: 3
13. Sides: 4, Vertices: 4
14. Sides: 0, Vertices: 0
15. 4 sides
16. 3 vertices
17. No
18. 3 corners
19. Square (both square and rectangle have 4, circle has 0, so square/rectangle)
20. 7 sides (4 + 3 = 7)

Section C: True or False

21. T
22. F

23.T

24.T

25.T

26.T (This is an advanced concept!)

27.T

28.F

29.F

30.T

Section D: Drawing Shapes

31-40. Check student drawings for:

- Square: 4 equal sides, 4 right angles
- Triangle: 3 sides, 3 vertices
- Rectangle: 4 sides (opposite sides equal)
- Circle: round, no corners
- Award marks for reasonable attempts that show understanding

Section E: Real-World Shape Identification

41.Circle

42.Triangle

43.Rectangle

44.Square

45.Triangle

46.Circle

47.Rectangle

48.Triangle

49.Circle (or sphere in 3D)

50.Square (accept: rectangle)

Section F: Properties Challenge

51. All sides of a square are equal, but a rectangle has 2 long and 2 short sides
52. They are all 90-degree angles / right angles / perfect "L" shapes
53. A circle has no corners so it rolls smoothly; a square has corners that catch/stop it
54. Square and Rectangle (any two of: square, rectangle, rhombus)
55. Triangle
56. Two triangles
57. Yes
58. Dots should be placed at all three corners of the triangle
59. Square and Rectangle should be circled
60. Side (or edge)
61. 4 triangles (1 large + 3 smaller)
62. Square
63. Accept any reasonable answer: door, book, whiteboard, window, etc.
64. F (False)
65. Rectangle (both have 4, so they're equal - accept "same" or "equal")

Section G: Pattern Recognition

66. Circle (🔴)
67. Triangle, Square, Circle repeating
68. Circle, Circle, Square (🔴 🔴 🟦)
69. Check for any logical pattern using 3 shapes (2 marks)
70. Triangle
71. 3 squares
72. Triangle
73. Square, Triangle (🟦 🔺)

74. Big circle

75. Check for pattern like: Rectangle, Square, Rectangle, Square OR Rectangle, Triangle, Rectangle, Circle, etc. (1 mark)

Section H: Comparison Questions

76. Square (4 vs 3)

77. Circle (0 vs 4)

78. Yes

79. Most: Square (4) → Triangle (3) → Least: Circle (0)

80. You cannot tell which is bigger just from the number of corners! Size depends on actual measurements. (Accept answers recognizing this is a trick question)

81. 1 more side

82. Triangle (only shape with 3 sides; others have 4)

83. Yes

84. The big triangle (size matters more than shape)

85. Trick question! Circles don't have straight edges, so you can't make a truly straight line with circles. (Accept creative answers that show understanding)

Section I: Word Problems

86. 12 corners (3 crackers × 4 corners = 12)

87. 7 sides (3 + 4 = 7)

88. 3 corners per piece

89. 3 shapes (only the blocks have corners)

90. 4 vertices

91. 8 vertices (2 triangles = 6, 1 square = 4; but wait - correct answer is 10! 2×3 + 1×4 = 10)

92. 3 corners

93. 8 corners (Accept: 4 if viewing only the front face)

94. 40 corners (10 × 4 = 40)

95. 7 sides (3 + 4 = 7)

Section J: Advanced Thinking

96. No, you cannot. A shape needs at least 3 sides and 3 vertices to be closed. (Accept reasonable explanations)

97. Depends on how they're connected! Could be 5, 6, or 7 corners depending on placement. (Accept any reasonable answer with explanation - this is purposely ambiguous)

98.

    1. Rectangle, 2. Parallelogram (or any quadrilateral - accept rectangle, trapezoid)

99. Straight line (the cut creates a straight edge/diameter)

100. Check creative drawing - award marks for: correct shapes (2 marks), using at least 2 of each (2 marks), creativity (1 mark)