

## Fun with Geometry (Level 1)

### Assessment Questions

#### Beauty in Shapes and Measurements

1. Give two examples of objects that have triangular shapes.
2. Give two examples of objects that have rectangular shapes.
3. Give two examples of objects that have circular shapes
4. How can you estimate the height in your toilet or kitchen using the tiles on the wall?
5. Can you recreate this pattern?



6. Can you draw a rectangle?
7. Which is longer: your height or your fathom? Why?

#### Patterns Everywhere

1. What do you do when you wake up? Put them in an order from 1-4
  - a. Wash my face
  - b. Eat breakfast
  - c. Change my clothes
  - d. Brush my teeth
2. Which shape is a red circle, green square, red triangle?



3. Draw a pattern using only one shape. Example:



4. Draw the following pattern:
  - a. Triangle, circle, circle, triangle.
5. Complete the missing shapes in this pattern:
  - i. square, rectangle, square, circle, square, rectangle, -----, -----
6. Discover any patterns in the garden/street/room you are in.

### Build Your Dream House

1. How many sides does a triangle have?
  - a. 2
  - b. 5
  - c. 3
2. How many angles does a rectangle have?
  - a. 3
  - b. 4
  - c. 6
3. Name one object that is shaped like a:
  - a. Square
  - b. Circle
4. Choose the right answer: the wall of your room looks like a:
  - a. Triangle
  - b. Hexagon
  - c. Rectangle
5. Represent the number of each shape as a tally mark
  - a. Circles            14
  - b. Triangles        10
  - c. Squares           8
  - d. Rectangles      17
6. Draw a circle (you can use a pencil and thread or draw freely).
7. Calculate  $20 + 50 =$
8. Is a square the same as a rectangle? How are they different? (Hint: think of the sides of each shape)

### Draw and Calculate like an Architect:

1. Draw an arrow that is pointing to the:
  - a. Right
  - b. Left
2. Choose the correct answer: The area of a shape is the size of the floor surface \_\_\_\_\_ (inside, outside) the shape.
3. What is meant by perimeter of a shape?
  - a. How big the shape is
  - b. How long the shape is - the sum of all the sides of the shape
4. Using dots or small circles, draw a rectangle that is 5 dots long and 3 dots wide.

5. Draw a square that is 4 dots long and 4 dots wide. Find the perimeter by adding the number of dots on all the four sides of the square (hint:  $4 + 4 + 4 + 4$ )
6. What is the area of this rectangle? Show by counting or multiplication.



Can you also find its perimeter?

7. What is a floor map?
  - a. A map of the world with different countries
  - b. A map of the different parts of one floor of a house
  - c. A picture of the floor
8. Draw an example of a floor map