

Mathematics concepts and ideas are everywhere, as well as at the corners of my school. They can be found at doors, windows, gardens and even the floor plan of my school.

One of the corners is the classroom door. There is a round-shaped window on it. When I tried to measure the diameter of the circle, I had some difficulties to locate the centre. To solve the problem, I got a few measurement by sliding my measuring tape in a parallel direction. The maximum value of the measurements was the best approximation value of the diameter of the circle.

Besides, I also wanted to study the angles between the door and the wall. It was amazing to find out that, even though arc lengths and areas of sectors were proportional to the angles, the areas of triangles were not! (This could be explained by the graph of a sine curve!)

The floor plan of my school was also inspirational. The floor plan consisted of 6 classrooms, a corridor and the Spiritual Garden. I used rate and ratio to draw the floor plan. Also, I used a benchmark (i.e. the length of a piano) to estimate the length of the corridor. For The spiritual garden, it is a rectangular area with square platforms with triangular spaces by two sides. If the school wanted to buy some pebbles to decorate the triangular spaces, decomposition-composition strategy could be used to estimate the total number of pebbles.