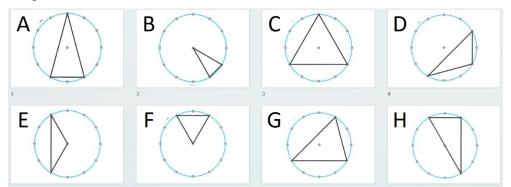
## 3rd Grade Mathematics Teaching Plan

Teacher: Hidemi TANAKA, University of Tsukuba Elementary School

## 1 Aim and teaching materials

This time we will be learning to create the concepts of triangle and isosceles triangle. If you make a triangle using 12 points on the circumference and the center, you can make a triangle like the one below



When sorting A to H through lottery, students should discover the properties (common features) of the 'lucky' triangles. In the second half of the lesson, students will draw isosceles triangles on their own. At that time, I would like students to notice that by using the circle's radius, we can make sides with equal lengths.

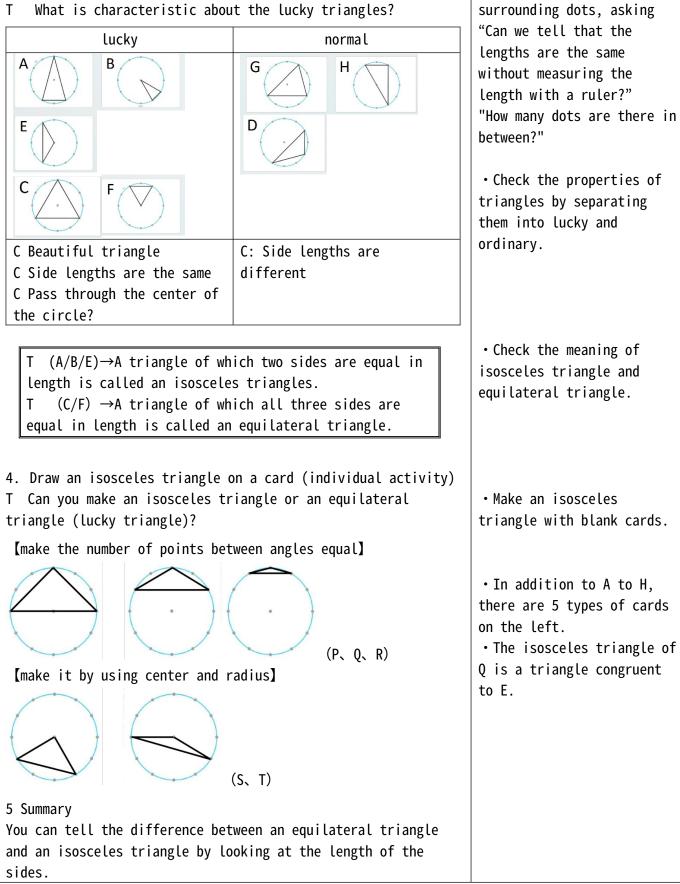
## 2 Aim

Students will be able to distinguish triangles by focusing on the lengths of their sides, and will understand the meanings of equilateral triangles and isosceles triangles. Also, they will be able to draw isosceles triangles by using the center and the radius of a circle.

## **3** Flow of the lesson

<ul> <li>Learning activity</li> <li>T: Asking questions</li> <li>C: Children's reactions</li> </ul>		Points to observe
<ol> <li>Draw a triangle lottery ticket and draw out the perspective of classification</li> <li>T: "Lucky" and "Normal" are written on the back of the triangle. Let's try to draw the "lucky" ones.</li> </ol>		• There are 12 equally spaced points on the circle and a point in the center. (clock face)
Lucky	normal G H	<ul> <li>Turn over the cards one</li> <li>by one and divide them into</li> <li>lucky and normal cards.</li> <li>I want to draw their</li> <li>attention to the lengths of</li> </ul>
<pre>C C is lucky! C I thought G is lucky but it is normal! 2. Choose a ways to see it and divide them (individually) T Which triangles do you suppose are lucky? (Predict and sort cards from A to H)</pre>		<ul> <li>the sides.</li> <li>Distribute the worksheets and cards.</li> </ul>

- 3. Learn about equilateral triangles and isosceles triangles. (everyone)
- What is characteristic about the lucky triangles? Т



• I want to draw attention

to the number of