**Problem Solving of PISA**

**Students Worksheet 3rd**

**BASIC OF COMPETENCY:**

3.4 Using the proportions for solving the problems.

4. 2 Calculating the circumference and area of the circle.

**INDICATORS:**

- Solving the PISA’s problem that related to the circle area by calculating the area of the circle.
- Solving the PISA’s problem that related to map scaled by estimating the area of continental.

**TIME ALLOCATION:** 2 x 40 minutes
Directions:
1. With your friends in group, solve the problems by using four steps. Those are:
   1. Understanding the problem
   2. Making a plan to solve
   3. Solving the problem
   4. Checking your solution/ Communicating your solution.
2. Ask to the teacher if you have any questions about the text.
3. You should solve the problems on the time which be given by the teacher and present it in front of the class.

Problem 1 - Pizzas

A pizzeria serves two round pizzas of the same thickness in different sizes. The smaller one has a diameter of 30 cm and costs 30 zeds. The larger one has a diameter of 40 cm and costs 40 zeds.

Figure 1. Pizzas with different sizes and costs

Which pizza is better value for money?
Show your reasoning.
**Problem 2- Continent Area**

**BELOW IS A MAP OF ANTARCTICA.**

Estimate the area of Antarctica using the map scale.

Show your working out and explain how you made your estimate (You can draw over the map if it helps you with your estimation)!