



MASTERY TEST (WRITTEN)
EXPLORE 5

Name : _____

Score : ____ / ____

Grade and Section : Grade 5 St. Anthony of Padua

Teacher : _____

=

Essential Performance Outcomes (EPO) and Competencies to be evaluated:

EPO2: Describe the new critical thinking and problem-solving abilities they have developed as the result of self-initiated projects and learning experiences. (LPO1)

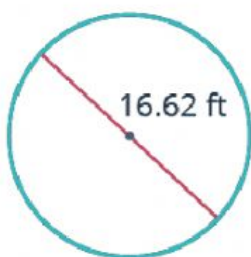
EPO4: Look for issues, situations, and sources of related information for further study and investigation. (LPO2)

EPO10: Willingly demonstrate their basic skills to others and improve them according to the feedback they receive. (LPO4)

- find the circumference and area of a given circle. **(M5ME-IVa-74)**
- solve routine and non-routine problems involving the area of a circle. **(M5ME-IVb-75)**
- identify the types of rocks **(S5FE-IVa-1)**
- investigate extent of soil erosion in the community and its effects on living things and the environment **(S5FE-IVb-2)**
- characterize weather disturbances in the Philippines and describe their effects to daily life

MATHEMATICS

- I. Analyze the figures below and identify the radius and diameter of each circle. Using the gathered information, solve for the circumference and area. Provide a copy of your solution to be submitted to your teacher. (1-10)**



- a. Radius :
- b. Diameter :
- c. Area :
- d. Circumference :



- a. Radius :
- b. Diameter :
- c. Area :
- d. Circumference :

II. Analyze and solve the following problem. Provide a copy of your solution to be submitted to your teacher.(5 points)

- A. Rita baked a pie for her grandma using a circular baking tray whose diameter is 10 inches. What is the total area of the pie?
- B. Lucas needs to buy a replacement tire for his bike. He measured the tire by wrapping a measuring tape around it and got a measurement of 37.68 inches. Upon arrival to the bike store, he saw that tires sold at the shop are measured by its radius. What is the radius of the tire he needs to buy?

Bonus question: What is the circumference of a half-circle whose diameter is 5 meters ?

III. Identify the terms being described on the following statements. Select your answer from the box below.

extrusive	heat and pressure	igneous
intrusive	lava	magma
metamorphic	rock	sedimentary
	sediments	water

- _____ 1. Molten rocks flowing on earth's surface.
- _____ 2. Molten rocks found underneath earth's crust.
- _____ 3. Rocks commonly found near active volcanoes.
- _____ 4. Type of igneous rock formed on Earth's surface.
- _____ 5. Examples of this rock are marble and diamonds.
- _____ 6. Type of rock formed when magma or lava is cooled.
- _____ 7. A solid substance that can be found on Earth's surface.
- _____ 8. The important factors in formation of metamorphic rocks.
- _____ 9. Type of igneous rock formed underneath Earth's surface.
- _____ 10. An example of this type rock is a prehistoric fossil of a fern.

IV. Answer the following questions. (11-20)

What are the components of an electro-magnet? Give actual example for each.

How does being familiar with the different types of weather disturbances can benefit you as a student? Cite a concrete example to support your answer.

Evaluation of your score will be based on following criteria:

Message is clear and conveys lessons	-	3
Contains principles and new ideas	-	2

Total = 5

points