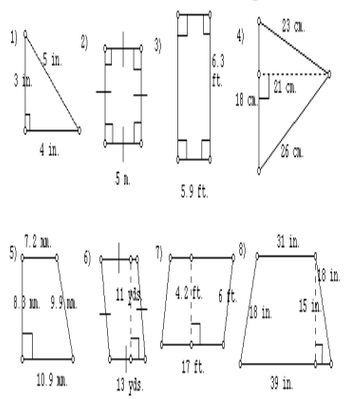
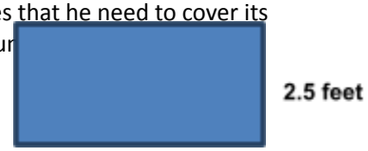
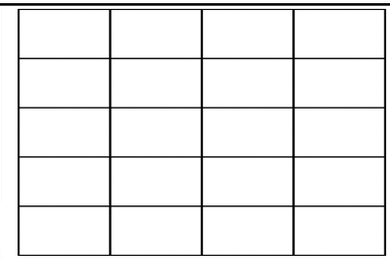
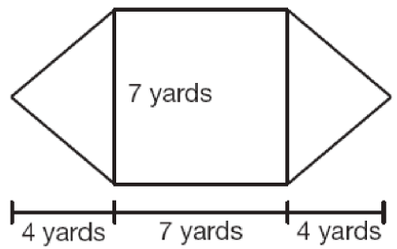
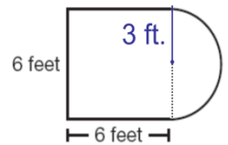
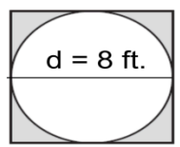
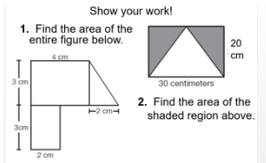
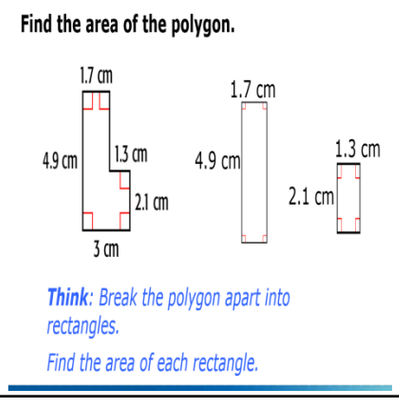
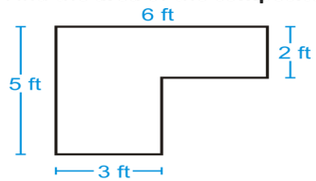
GRADES 1 to 12 DAILY LESSON LOG	School:		Grade Level:	VI
	Teacher:	*Credits to the Writer of this DLL*	Learning Area:	MATHEMATICS
	Teaching Dates and Time:	APRIL 17-21, 2023 (WEEK 10)	Quarter:	3RD QUARTER

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
I. OBJECTIVES	The learner…..				
A. Content Standard	demonstrates understanding of rate and speed, and of area and surface area of plane and solid/space figures.				
B. Performance Standard	is able to apply knowledge of speed, area, and surface area of plane and solid/space figures in mathematical problems and real-life situations				
C. Learning Competencies / Objectives	**finds the area of composite figures formed by any two or more of the following: triangle, square, rectangle, circle, and semi-circle. M6ME-IIIh-89**		**solves routine and non-routine problems involving area of composite figures formed by any two or more of the following: triangle, square, rectangle, circle, and semi-circle M6ME-IIIh-90**		
Measurement	Measurement	Measurement	Measurement		
III. LEARNING RESOURCES					
A. References					
1. Teacher's Guide pages		21ST Century Mathletes, p.103-107	21ST Century Mathletes, p.103-107		
2. Learner's Materials pages		21st Century Mathletes 6,	21st Century Mathletes 6		
3. Textbook pages		21st Century Mathletes 6	21st Century Mathletes 6		
4. Additional Materials from Learning Resource (LR) Portal					
B. Other Learning Resources		Mathletes 6 textbook, video clip, power point presentation, drawings of patterns, picture cards	Mathletes 6 textbook, video clip, power point presentation		
IV. PROCEDURES					
A. Reviewing previous lesson or presenting the new lesson		Drill: Group Activity! Find the area of the ff. figures  	Drill: **Warm Up** **1.** What is the area of a rectangle with length 10 cm and width 4 cm? **2.** What is the area of a parallelogram with base 18 ft and height 12 ft? **3.** What is the area of a triangle with base 16 cm and height 8 cm?	**3rd Quarter Examinations**	

B. Establishing a purpose for the lesson		Aldrin works for a company that remodels kitchens. In one kitchen he builds the rectangular island shown below. What is the size of the granite tiles that he need to cover its cour  To find the size of the granite tiles, we need to find the area of the rectangle. Area=Lxw =6ft. x 2.5 ft Area= 15sq.ft.	 What is the area of the region? We have a rectangular array. Since the region is filled w/ 20sq.cm, its area is 20sq.cm. the number of units is 5 x 4 =20	
C. Presenting Examples/Instances of new lesson		Find the area of the composite figure. The composite figure contains 2 triangles and 1 square. We need to find the area of each region.  Area of 1 triangle: A = ½ bh A = ½ (7)(4) A = ½ (28) A = 14 yds^2 Area of square: A = lw = 7(7) = 49 yd^2 Total area of figure: Add up areas of 2 triangles and square: A = 2(14) + 49 = 28 + 49 = **77 yd^2.**	Present the problem on page 266. (Example no. 7) A roller-rink floor is shown below. Each end is a semi=circle. What is the area? If hardwood flooring costs Php220.00 per square foot, how much will the flooring cost? Discuss the solution on page 266.	
D. Discussing new concepts and practicing new skills #1		A **composite** figure is formed from two or more figures.	Discuss Example no. 8 on page 267.	

		<u>To find the area of a composite figure:</u> Find the areas of each figure then ***<u>add</u>*** them up. To find the area of a shaded region, you need to ***<u>subtract</u>*** the areas. Find the area of the figure. The figure contains: 1 square and a semicircle  Ans: Area of square: $A = lw = 6(6) = 36\ ft^2$ Area of circle: $A = \pi r^2$ $A = \pi(3)^2 = 9\pi\ ft^2$ Area of semicircle = $\frac{1}{2}(9\pi) = 4.5\pi\ ft^2$ Total area of figure: Add areas of square and semicircle: A = **$36 + 4.5\pi\ cm^2$**	Let them watch the video of "Composite figures, Finding the Area".	
E. Discussing new concepts and practicing new skills #2		Find the area of the shaded region if the area of the square is 64 ft^2. We are given the area of the square, we need to find the area of the circle. What is its radius?  Ans: We are given the area of the square, we need to find the area of the circle. What is its radius? Diameter = Length of square = = 8 ft. Radius = ½ (8) = 4 ft. Area of circle:	Solve each problem. 1.Rob is painting large polka dots on a sheet for the backdrop of the school musical. He painted 16 polka dots, each with a radius of 3 feet. What is the total area that the polka dots cover? 2.The librarian is having the library at her school carpeted. The library is a circular room with a diameter of 420 feet. How many square feet of carpet will she need to order? Ans: 452.16 sq. ft. 138,474 sq. ft	

		$A = \pi r^2$ $A = \pi(4)^2 = 16\pi$ ft^2. Area of shaded region = Area of square – Area of circle $A = 64 - 16\pi$ ft^2.		
F. Developing mastery (Leads to Formative Assessment)		Group Activity:  	Group Activity: Solve the ff. problems: How many sq.cm. of tiles are needed to floor a hexagonal terrace if each side is 30cm long and the radius of the inscribed circle is 15.5cm? A rectangle wrapping cloth has a length of 26inches and a width of 24 inches. Two circular cloth with a diameter of 8 inches will be cut from it. How much cloth will be left?	
G. Finding practical applications of concepts and skills in daily living		Pair-share:  	Group Activity: How much material is required to make a circular skirt if the waist hole has a circumference of 60.5 cm. and the diameter of the circular skirt is 12.5cm?	
H. Making generalizations and abstractions about the lesson	How do we find the area of composite figures? To find the **area** of a **composite figure**, separate the**figure** into simpler **shapes** whose **area** can be found. Then add the **areas** together. Be sure than none of the simpler **figures** have overlapping **areas**. Example 1: Find the **area** of the **composite** shape shown below.  			

I. Evaluating Learning		Evaluate item 7-14 Find the area of each shaded region. Assume that all angles that appear to be right angles are right angles. (21st Century Mathletes textbook, page 269)	Solve each problem. Provide illustration if necessary. (21st Century Mathletes textbook, page 270)	
J. Additional activities for application and remediation				
V. Remarks				
VI. REFLECTIONS				
A. No. of learners who earned 80% on the formative assessment				
B. No. of learners who require additional activities for remediation who scored below 80%				
C. Did the remedial lessons work? No. of learners who have caught up with the lesson				
D. No. of learners who continue to require remediation				
E. Which of my teaching strategies worked well? Why did this work?				
F. What difficulties did I encountered which my principal or supervisor can help me solve?				
G. What innovation or localized materials did I use/discover which I wish to share with other teachers?				