## DAILY LESSON LOG OF M7SP-IVh-1 (Week Seven-Day 3)

	School		Grade Level	Grade 7						
	Teacher		Learning Area	Mathematics						
	Teaching Date and Time		Quarter	Fourth						
	I. OBJECTIVES	Objectives must be met over the week and connected to the curriculum standards. To meet the objectives, necessary procedures must be followed and if needed, additional lessons, exercises and remedial activities may be done for developing content knowledge and competencies. These are assessed using Formative Assessment Strategies. Valuing objectives support the learning of content and competencies and enable children to find significance and joy in learning the lessons. Weekly objectives shall be derived from the curriculum guides.								
Α.	Content Standards			epts, uses and importance of						
			n/gathering and the different dency, measures of variability	forms of data representation,						
В.	Performance Standards		ollect and organize data syster							
-	Terrormance Standards		central tendency and variabil							
		=	nalysis and interpretation in di							
C.	Learning Competencies/ Objectives	ungrouped data. (M7SF Learning Objectives: 1. Define terms r	<b>P-IVh-1)</b> elated to measures of variabil	f variability of grouped and ity.  ge and standard deviation) of						
	Objectives	grouped data.	, , ,	,						
		= -	appreciation on the impo	rtance of the measures of						
II.	CONTENT	Measures of Variability								
III.	LEARNING RESOURCES	Grade 8 Teacher's Guid	e and Learner's Module							
Α.	References									
	1. Teacher's Guide	Pages	Pages							
	2. Learner's Materials	Pages 542 – 551								
	3. Textbook pages									
	4. Additional Materials									
	from Learning									
	Resource (LR) portal									
В.	Other Learning									
	Resources									
IV.	PROCEDURES	These steps should be done across the week. Spread out the activities appropriately so that pupils/students will learn well. Always be guided by demonstration of learning by the pupils/ students which you can infer from formative assessment activities. Sustain learning systematically by providing pupils/students with multiple ways to learn new things, practice the learning, question their learning processes, and draw conclusions about what they learned in relation to their life experiences and previous knowledge. Indicate the time allotment for each step.								
			dents complete the table:							
		Using the data of the A  Amount in pesos		Midpoint						
		Amount in pesos	Days (f)	(x)						
_		172 – 180 3								
Α.	Review previous lesson	163 – 171	5							
	or presenting the new	154 - 162	9							
	lesson	145 – 153	12							
		136 – 144	5							
		127 – 135	4							
		118 - 126	n =							
		Possible answer of the								
		. 555.5.6 4115.0001 01 1116								

Amount in pesos	Days (f)	Midpoint (x)
172 – 180	3	176
163 – 171	5	167
154 - 162	9	158
145 – 153	12	149
136 – 144	5	140
127 – 135	4	131
118 - 126	2	122
	n =	

# B. Establishing a purpose for the lesson

The teacher lets the students realize that there is a need to find the midpoint because this is needed when we compute for the standard deviation of the data.

Let the students perform the following steps:

To find the mean of a grouped data follow the following steps:

- 1. Prepare the frequency distribution with appropriate class intervals and write the corresponding frequency (f).
- 2. Get the midpoint (x) of each class interval.
- 3. Multiply frequency (f) and midpoint (x) of each interval to get fx.
- 4. Add fx of each interval to get  $\sum fx$ .
- 5. Compute the mean  $\overline{x}$  by using  $\overline{x} = \frac{\sum fx}{n}$

Let the students follow the steps to find the mean of the data:

Amount in pesos	Days	Midpoint	fx
	(f)	(x)	
172 – 180	3	176	
163 – 171	5	167	
154 - 162	9	158	
145 – 153	12	149	
136 – 144	5	140	
127 – 135	4	131	
118 - 126	4	122	
	n =		

#### C. Presenting examples/ instances of the new lesson

Possible answer of the students:

Amount in pesos	Days	Midpoint	fx		
	(1)	(x)			
172 – 180	3	176	528		
163 – 171	5	167	167 158 149		
154 - 162	9	158			
145 – 153	12	149			
136 – 144	5	140	140		
127 – 135	4	131	131		
118 - 126 4		122	122		
	n = 40		$\sum fx = 6041$		

$$\overline{x} = \frac{\sum fx}{n} = \frac{6041}{40} = 151.03 \text{ or } 151$$

# D. Discussing new concepts and practicing new skills #1

The teacher then explains to the students that after getting the standard deviation they need to follow the steps:

- 1. Calculate the deviation d by subtracting the mean  $(\bar{x})$  from each midpoint (x). Thus, d = x  $\bar{x}$ .
- 2. Square the deviation (d) of each interval to get d<sup>2</sup>.
- 3. Multiply the frequency (f) and d  $^2$  . And find the sum of each product to get  $\Sigma f d^2$ .

		4. Calculate the standard deviation (s) using the formula $s = \sqrt{\frac{\sum f d2}{n}}$								
		Amount in pesos	Days (f)	Midpoint (x)	fx	d (deviation)	d²	f d <sup>2</sup>		
		172 – 180	3	176	528	25	625	1875		
		163 – 171	5	167	167	16	256	1280		
		154 - 162	9	158	158	7	49	441		
		145 – 153	12	149	149	-2	4	48		
		136 – 144	5	140	140	-11	121	605		
		127 – 135	4	131	131	-20	400	1600		
		118 - 126	4	122	122	-29	841	1682		
			n = 40		$\sum fx = 604$			$\sum_{x} f d^2$		
		Try to solve the	ne standard	deviation:				7531		
		Possible answ								
		Standard devi	ation: 13.72	2						
		The teacher in				-				
			•	est measure o	•					
		upper class b	-	t the top inte	erval and the	lower class l	bounda	ry of the		
		bottom interv	-	undary of the	Highort Intor	val – Lower C	lacc Doi	ındanı of		
		Range = Upper Class Boundary of the Highest Interval – Lower Class Boundary of the Lowest Interval								
		Example:								
			Second Per	iodical Test of	7 – Faith in M	lathematics I				
			Scores			Frequency	Y			
			46 – 50		1					
E.	Discussing new concepts		41 – 45			10				
	and practicing new skills		36 – 40			10				
	#2		31 – 35			16				
	<i>112</i>		26 – 30			9				
			21 – 25		<u> </u>	4				
				Highest Interv the Highest Ir		0.5 = 50.5				
		Lower Class Li								
		Lower Class B	oundary of	the Lowest Int	terval = 21 <b>–</b> 0	.5 = 20.5				
		_		Boundary of	the Highest Ir	nterval - Lowe	r Class E	Boundary		
		of the Lowest								
			0.5 – 20.5							
		Range = 30 Working in pa		her lets the st	udents nerfo	m the followi	ng activ	ritv.		
		Find the range				10110111		1.		
		_	_	iodical Test of	7 – Faith in M	lathematics I				
			Scores		Frequency					
	_		46 – 50			1				
F.	Developing mastery		41 – 45			10				
	(leads to formative		36 – 40			7				
	assessment 3)		31 – 35		+	16				
			26 – 30 21 – 25			9 4		$\overline{}$		
			16 – 20			3				
		Answer:								
		Range = 50.5 – 15.5 = 35								
G.	Finding practical									
	applications of concepts									
	and skills in daily living									
<u> </u>		<u> </u>								

H.	Making generalizations and abstractions about the lesson	The teacher reiterates that standard deviation is considered the best indicator of the degree of dispersion among the measures of variability because it represents an average variability of the distribution. Given the set of data, the smaller the range, the smaller the standard deviation, the less spread is the distribution.						
	Evaluating Learning	The teacher will ask the students to calculate the range and the standard deviation.  Scores Frequency  18-20 2 15-17 8 12-14 9 9-11 7 6-8 3-5 1 n=30  Answers: Range = 18						
1.		Mean = 12.5 Standard Dev Scores 18-20 15-17 12-14 9-11 6-8 3-5 $s = \sqrt{\frac{429.25}{30}}$	(f) 2 8 9 7 3 1 n=30	Midpoint (x) 19 16 13 10 9 4	$fx$ $38$ $128$ $117$ $70$ $21$ $2$ $\sum fx = 37$	d (deviation) 6.5 3.5 0.5 -2.5 -5.5 -10.5	d <sup>2</sup> 42.3 12.250 0.25 43.75 90.75 110.25	$f d^{2}$ 84.5 98 2.25 43.75 90.75 110.25 $\sum_{=}^{} f d^{2}$ 429.25
J.	Additional activities or remediation							
V.	REMARKS							
VI.	REFLECTION	works? What e	lse needs to	assess yourself of be done to held provide for you	lp the pupils/st	tudents learn? I	dentify wha	t help your
A.	No. of learners who earned 80% of the evaluation	questions						
В.	No. of learners who require additional activities for remediation who scored below 80%							
C.	Did the remedial lesson 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 these work?							

F.	What difficulties did I encounter 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	Localization and assessment 3)	Contextualization)	F.	Developing	mastery	(leads	to	formative

Prepared by:

### WILMA B. MALAZARTE

Labogon NHS