

BASIC 7

WEEKLY LESSON PLAN – WEEK 12

Learning Indicator(s)	B7.4.1.2 B7.4.2.1		
Performance Indicator	B7.4.1.2.1 Calculate the mean for a given ungrouped data and use it to solve problems B7.4.1.2.2 Calculate the median for a given ungrouped data and use it to solve problems B7.4.2.1.1 Demonstrate understanding of likelihood of a single outcome occurring by providing examples of events that are impossible, possible, or certain from personal contexts.		
Week Ending	02-12-2022		
FORM	B.S.7		
Subject	Mathematics		
Reference	Teachers Resource Pack, Learners Resource Pack, Textbook.		
Teaching / Learning Resources	Pictures, Shapes, Meter rule, Paper.		
DAYS	PHASE 1 : STARTER	PHASE 2: MAIN	PHASE 3: REFLECTION
MONDAY 28-11-2022	Learners are to guided to explain the meaning of Mean.	<ol style="list-style-type: none"> Discuss the formula for calculating the mean of an ungrouped data. Assist Learners to Solve problems involving calculating the mean or average. <p>The mean of the ungrouped data is given by ;</p> <p>Mean = $\frac{\sum f \sum x_i}{n}$ · Mean = $\frac{\sum x_i}{n}$ · Mean = $\frac{\sum n \sum fx}{n}$ Mean = $\frac{a+n \sum fx}{n}$ · Mean = $\frac{\text{Number of entries Sum of all entries. Mean} = n}{n}$</p> <div style="border: 2px solid green; padding: 5px; margin-top: 10px;"> <p align="center">Formula for Finding the Mean of the Ungrouped Data</p> $\text{Mean} = \frac{\text{Sum of the Variables Total}}{\text{Number of Variates}}$ $\text{Mean} = \frac{x_1 + x_2 + x_3 + x_4 + \dots + x_n}{n}$ <p align="center">Symbolically, $A = \frac{\sum x_i}{n}$; $i = 1, 2, 3, 4, \dots, n.$</p> </div>	<p>Core Competencies;</p> <ol style="list-style-type: none"> Implement strategies with accuracy Can see the importance of including all team members in discussions and actively encourage contributions from their peers in their team

Mean for Ungrouped Data

- So what might we have to do if the data is given to us in an ungrouped freq. distribution like the one below?

Points	Frequency
7	3
8	5
9	9
10	10
11	11
12	9
13	3

- Need to multiply the class column by the frequency column giving is the $f \bullet X$ column.
- f = frequency and X = points

3. Identify words or sentences in context or appropriately

TUESDAY
29-11-2022

Review Learners knowledge on the previous lesson.

1. Assist Learners to find the median of an ungrouped data.
2. Learners individually practice finding the median of an ungrouped data.

Finding for the median number in an ungrouped data;

Median = $[(n+1)/2]^{\text{th}}$ observation, if n is odd. Median = mean of $(n/2)^{\text{th}}$ observation and $[(n/2)+1]^{\text{th}}$ observation, if n is even

Eg.1. Find the median for a data set by arranging the items in the set in an array and identifying the middle item.

- i. Find the median of 19, 29, 36, 15, and 20. (i.e. the middle item in the array 15, 19, 20, 29, 36 is 20). NB. since there are 5 values (odd number), 20 is the median (middle number)
- i. Find the median for the data set 8, 9, 7, 6, 8, and 10. (i.e. the middle item in the array 6, 7, 8, 8, 9, and 10 is 8).

Median of Raw Data

Arrange the raw data in ascending or descending order.

If n = Number of variates in the data, then

Median = $\frac{n+1}{2}$ th variate, when n is odd.

Median = $\frac{1}{2} \left\{ \frac{n}{2} \text{th variate} + \left(\frac{n}{2} + 1 \right) \text{th variate} \right\}$,
when n is even.

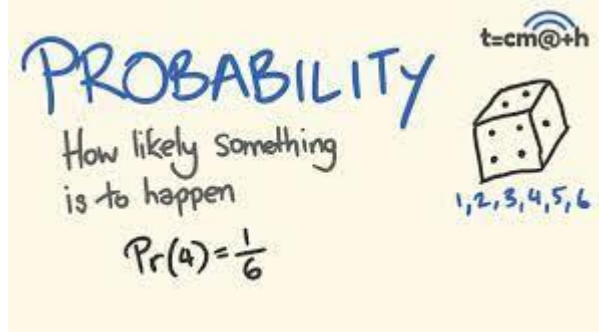
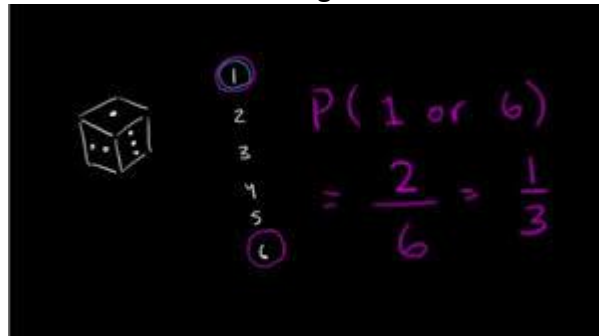
Core Competencies;

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THURSDAY
01-12-2022

Discuss with Learners using a Wordchart the meaning of Probability.

1. Demonstrate understanding of likelihood of a single outcome occurring by providing examples of events that are impossible, possible, or certain from personal contexts.
2. Assist Learners to describe each outcome using words like: impossible, possible, or certain.
3. Ask learners to work in groups to discuss the outcome of the following events using words like: impossible, possible, or certain
 - A. A coin lands Heads side up
 - B. The day after Monday will be Tuesday
 - C. A new born baby will be a girl
 - D. It will rain in Winneba in the first week of January
4. Ask learners to work in groups to discuss the following outcomes of throwing a die using words like: impossible, possible, or certain
 - A. Obtaining the number 1
 - B. Obtaining the number 7
 - C. Obtaining the number 4



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