

GRADE 7 DAILY LESSON LOG	School		Grade Level	7
	Teacher		Learning Area	MATHEMATICS
	Teaching Dates and Time		Quarter	FOURTH

	Session 1	Session 2	Session 3	Session 4
I. OBJECTIVES				
1. Content Standards	The learner demonstrates understanding of key concepts, uses and importance of Statistics, data collection/gathering and the different forms of data representation, measures of central tendency, measures of variability, and probability.			
2. Performance Standards	The learner is able to collect and organize data systematically and compute accurately measures of central tendency and variability and apply these appropriately in data analysis and interpretation in different fields.			
3. Learning Competencies/Objectives	The learner explains the importance of Statistics (M7SP-IVa-1) a. Define statistics and identify the uses and importance of Statistics b. Explain the importance of Statistics c. Value accumulated knowledge as means of new understanding	The learner poses problems that can be solved using Statistics (M7SP-IVa-2) a. Identify the population and sample in the statement b. Pose problems that can be solved using Statistics c. Value accumulated knowledge in real life situation	The learner poses problems that can be solved using Statistics (M7SP-IVa-2) a. Identify the population and sample in the statement b. Pose problems that can be solved using Statistics c. Value accumulated knowledge in real life situation	The learner formulates simple statistical instruments (M7SP-IVa-3) a. Identify the methods in data collection b. Make a survey form c. Value accumulated knowledge in real life situation
II. CONTENT	Introduction to Statistics	Introduction to Statistics	Introduction to Statistics	Formulating Simple Statistical Instruments

III. LEARNING RESOURCES				
A. References				
1. Teacher's Guide pages				
2. Learner's Materials pages	pp. 237-238	pp. 237 – 238	pp. 237 – 238	
3. Textbook pages	es, Priscilla S., Copo, Antonio I., Elementary Statistics, pp. 3-4	Grade 7 e-math by Oronce & Mendoza pp. 480 – 482 Math Builders 7 New Enhanced Edition page 377 Advance Mathematics for 4th Year pp. 234 – 238	Grade 7 e-math by Oronce & Mendoza pp. 480 – 482 Math Builders 7 New Enhanced Edition page 377 Advance Mathematics for 4th Year pp. 234 – 238	E-math by Oronce and Mendoza, Rex Book Store, pp.485-488
4. Additional Materials from Learning Resource (LR) portal	http://www.mathworksheetscenter.com/mathtips/statsareimportant.html		http://www.commoncoresheets.com/Statistics.php http://teachersites.schoolworld.com/webpages/JCasaLinuovo/files/statistics%20definitions%20worksheet.pdf	
B. Other Learning Resources / Materials	Grade 7 LCTG by DepEd Cavite Mathematics, 2016 Projector, Blackboard, Meter stick	Grade 7 LCTG by DepEd Cavite Mathematics, 2016 show me board, tape measure, meter stick	Grade 7 LCTG by DepEd Cavite Mathematics, 2016 PowerPoint Presentation	Grade 7 LCTG by DepEd Cavite Mathematics, 2016 survey forms
IV. PROCEDURES				

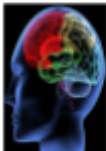
A. Reviewing previous lesson or presenting the new lesson	“Sing a Song” <i>Data, Data</i> ne of Twinkle, Twinkle Little Star) ata, Data What are you? COLLECT you, oh it’s true. ALYZE you that’s my plan TERPRET to understand ata, Data what are you? I’ll PRESENT you right on cue	“WikaRambulan!” The students will be grouped into 4 groups and each group should have a “show me board”. The group will guess the words related to Statistics by giving the correct word based on the phrase that the teacher will show. The phrases are sounds like of the correct word. After one minute the group will raise the show me board. The group with the highest score will receive additional points on the performance task. Example : Is That This Sticks - Statistics 1. Pop Fuel Lay Show On 2. Run Doe Am 3. Hour Bear Wage 4. Sum Am Fall 5. The A Ta 6. Sent Sew Is 7. Call Like Shall On 8. An All List See Is 9. Press Scent Tie Shown	Make a scenario inside the classroom where the population and sample will be presented.	With a classmate, do the following: 1. Record the number of siblings of each of your classmates 2. List down the type of cellphone used by your classmates
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B. Establishing a purpose for the lesson	Pre-Assessment 1. What is 20% of 600? a. 30 b. 60 c. 120 d. 1200 2. What percent of $\frac{1}{2}$ is $\frac{1}{8}$? a. 25% b. 50% c. 40% d. 80% 3. The graph is a ____.  a. Bar graph b. Polynomial graph c. Line graph d. Pie graph 4. Juka bought a cellphone at Php 2,500 and sold it to Leira for Php 3,200. How much is her profit? a. Php300 b. Php400 c. Php600 d. Php700 5. It is the science of collecting, classifying and presenting data. a. Algebra b. Geometry	Determine if the following population is well defined. a. The set of all Grade 10 students in the Philippines who are currently enrolled in public schools. b. The set of all good books. c. The set of teams that comprise the PBA. d. The population of expensive homes in Tagaytay. e. The population of teenagers in Batangas	Determine if the question posed is a statistical question (yes) or not (no). 1) How many cars are in each driveway on your street? 2) How many people think Elvis is the best singer? 3) How many boxes of candy did each student sell? 4) How many cities had more than 2" of snow? 5) How many girls are in your class?	Data are collected from different sectors such as business, education, medicine, etc. A leading newspaper conducted a survey on honesty. Below are the five questions to be asked to the readers. HONEST CAN YOU BE? 1. You found someone's wallet in the canteen, what would you do? a. Return the wallet to the owner. b. Return the wallet but keep the money. c. Keep the wallet and the money. 2. You are mistakenly given 50 pesos extra change when you buy a notebook from the school's book store, what would you do? a. Return the 50 pesos to the cashier b. Keep the money 3. An extra 10 points mistakenly added to

	c. Statistics d. Trigonometry			your score in the examination made you pass. Would you report it to your teacher? a. Yes b. No 4. You know that your teacher is not that strict during examination. Would you cheat on the exam? a. Yes b. No 5. Are you honest most of the time? a. Yes b. No a. What is the population for this honest survey? What is the Sample? b. Suppose 200 students in your school complete the survey and 180 students answer "No" to Question 4, what percent of the respondents said they would not cheat on the exam?
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C. Presenting examples/ instances of the lesson	uring the arm span: Stretch out both arms and measure the length from the tip of a middle finger to the tip of the other middle finger.  ou think students in this class have different arm spans? How many in this class have the same arm spans? What is the most common measure of arm spans? To answer these questions, you will do the following: ctions: Using a tape measure or a meter stick, measure your individual arm span. Use the centimeter (cm) unit of length. Round off measures to the nearest cm. n the board, write your measures individually. d Questions:	Exploratory Activity: Instruction: Using a tape measure or a meter stick, measure your individual arm span. Stretch out both arms and measure the length from the tip of a middle finger to the tip of the other middle finger. Use the centimeter (cm) unit of length. Round off measures to the nearest cm. Write the individual measurement on your leaders' notebook. - Based on the activity, what do the numbers represent? - Can we get clear and precise information immediately as we look at these numbers? - How can we make these numbers meaningful for anyone who does not know about the description of these numbers? - What is population and sample?	Determine whether the sample used in the given situations is representative of the respective population. If not, give the reason for your answer. - A researcher wanted to make a survey on the socio-economic status of the families of the 100 Grade 7 students of Tanza National Trade School. He borrowed the students' checklist from the principal and got every fifth student from the list until he was able to get 60 names for his sample. - To assess the achievement in mathematics of the entire Grade 7 students of a certain school, the principal gave the achievement test only to one section. - To find the average income of a Filipino family, a census employee conducted a	Situation # 1 Mrs. Rivera wants to find the number of students in her advisory class who have birthdays falling on each of the 12 months. She collects the data in the following manner. - Check the date of birth of each student in the class registry. - Ask the students to raise their hands if their birthdays fall in a certain month. - Make a form and ask the students to write their birthdates and return the form to her. Situation # 2 A chemist conducts experiments in order to know if it is possible to produce paper from the manure of cows. Situation # 3
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	a. What do these numbers represent? b. Can we get clear and precise information immediately as we look at these numbers? c. How can we make these numbers meaningful for anyone who does not know about the description of these numbers? d. Based on your activity, what is the meaning of Statistics?		survey in a slum area in Metro Manila. 4. To predict the outcome of the local election, a group conducted a survey on every member of the third house of the barangay to find out who their bets are.	A restaurant manager requests her customers to fill out this questionnaire: BLUE RIBBON RESTAURANT Customer Satisfaction Survey • How would you rate our food? • How would you rate our service? ___ Very Good ___ Okay ___ Good ___ Bad ___ Needs Improvement a. What are the ways/methods of collecting data used in each situation?
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				b. How would you know which method to use in a given situation? c. How does Statistics help us in our decision-making?
D. Discussing new concepts and practicing new skills #1	The teacher prepares five pictures related to the topic in which the task of the learner is to describe it. They can also cite instances that are related with the picture. This activity is individual but the picture is assigned to each group. a.  b.  c. 	by the words or phrases that represent the population and sample. Underline the population once and twice the sample. 1. When Lola Flora buys a cavan of rice for her carinderia, she examines only a handful of rice from the cavan to find out whether it is of good quality or not. 2. When Chef Boy wants to know the taste of the food he is preparing, he takes a spoonful of the food.	the given questions, choose the problem that can be solved using statistics. 1) How many cars were sold each day this month? 2) How old is the painting, 'The Mona Lisa'? 3) What were the students' scores for the math test? 4) How many hours did you sleep last night? 5) How long did each person take to eat lunch? 6) Which student sold the most boxes of candy? 7) What size shoes does each person in the class wear? 8) How many classmates have a game app on their phone?	the class into two groups and collect a data as to what school are your classmates intend to enroll in college and their course preference. A duct a survey using the interview method B duct a survey using questionnaire method



	d. e. ed Questions: a. What does the picture imply? How can you relate these pictures to our previous lesson?		9) How many presidents were under 50 when inaugurated? How many inches of snow did each city get?	
E. Discussing new concepts and practicing new skills #2	Problem" ose you were asked to make a study on the brand preferences and satisfaction of consumers of famous laundry soap in four different supermarkets. How will you do the study? ctions: Arrange the letters of the following steps to statistical inquiry in a logical way: a. Collecting relevant information b. Defining a problem	Given are samples taken from population. Identify the possible population. 1. a senior student with a part time job in a school 2. scores in Math on a test 3. the number of absences made by the male students in a school year	Use the scenario to identifying populations and samplings. 1. A survey company was trying to see if people in a state thought the pollution was too high. Which choice best represents a population? b. A selection of people from each neighbourhood in the state.	est a way to collect each set of data. a. Favorite sports of your classmates. b. Population of Region IV-A c. Most famous K-pop group d. Can sawdust be substituted for sand in the production of sand? e. The number of students who participated in the class discussion

	c. Interpreting the data d. Analyzing the data e. Organizing and presenting the data		c. A selection of people who live in small towns. d. Every person in the state. e. A selection of people who live in dirty neighbourhoods. 2. A school principal wants to see which subject the 695 students in his school liked best. Which choice best represents a sample? a. The girls in the school. b. 1 classroom for each grade. c. All the students in the school. d. The students making a B in math. 3. A gaming website wanted to find out which console its visitors owned. Which choice best represents a population? a. Visitors with an 'e' in their username. b. Visitors to the 3DS section. c. Visitors over 22.	
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			d. All of the website visitors	
F. Developing mastery (Leads to Formative Assessment 3)	ions: The following words and phrases are some importance of Statistics. Choose the word or phrases inside the box and write it under its uses. • Dispersion • Assessment on student's performance • Imports and exports • Law of Supply and Demand • Location of business • Planning for educational design and curriculum • Production planning • Estimation on the number of depositors • Quality Products • Precision in describing results on measurements • Cash Flow • Estimation of values • Interest Rates • Inflation Rate • Policy planning for school system	Give an appropriate sample and supply the data needed to answer the following questions. - What is the common size of shoes worn by the girls in your class? - What is the common height of students in your section? - What is the most – liked subject in your class? - Who among the young actors and actresses is the most admired by teenagers? - Who is the most popular teacher in your campus?	Choose the letter of the best answer. - A toy store owner tracking how much kids spend each month on toys. Which choice best represents a population? - All of the kids who buy toys. 227 rich kids. 228 boys age 7 - 15 235 kids from age 10 to 15. - A mayor wanted to see if the people in his town thought he was doing a good job. Which choice best represents a sample? 1,000 unemployed voters. - The mayor's family. - The residents of the town. 242 voters - A restaurant chain wanted to find out how the customer experience was in a store.	Determine the best method to use in collecting data for the following situations. - Body temperature of patients in Level 1. - Population of Junior High School Department in your school - Effectiveness of certain whitening soap - Feedback of students about a certain school program - Number of customers in a restaurant from 10:00 am to 11:00 pm

	<table> <tr> <td>Busi ness</td><td>Ban king</td><td>Eco nom ics</td><td>Edu cati on</td><td>Mat he mat ics</td></tr> <tr> <td></td><td></td><td></td><td></td><td></td></tr> </table>	Busi ness	Ban king	Eco nom ics	Edu cati on	Mat he mat ics							Which choice best represents a sample? a. 1 out of every 35 customers b. All of the people who ate at the store. c. 240 customers who spent more than Php500. d. 299 customers who filled out complaint cards.	
Busi ness	Ban king	Eco nom ics	Edu cati on	Mat he mat ics										
G. Finding practical applications of concepts and skills in daily living	the blanks. Explain the importance of Statistics by completing the statement below.	Identify the population and sample in the following problem. 1. A scientist is investigating the	at least 3 examples of problems that can be solved using Statistics.	a survey form to help the Math Club decide what three activities they would do at the upcoming Math Camp										

	a. In weather forecast, statistics help us _____. b. In predicting diseases, statistics helps you _____. c. In consuming goods, statistics may help you _____. d. Government agencies use statistics to make _____. e. In political campaign, statistics help us to _____.	effectiveness of a new drug to relieve the symptoms of hypertension. He administers the drug to 100 adults. P _____ - S _____ - 2. Teacher Arlyn wants to know the common height of the Grade 7 students in the school. She interviews only 100 grade 7 students. P _____ - _____		
H. Making generalizations and abstractions about the lesson	tics is the science of collection, organization, analysis, and interpretation of data. tance of Statistics	✓ Statistics is a branch of Mathematics that deals with the collection, organization,	✓ Statistics is a branch of Mathematics that deals with the collection, organization, presentation, analysis,	Data is a collection of facts or information. They may be gathered using the following methods. 1. Conducting surveys –

	a. Business • Production Planning • Quality of products • Location of business • Advertising of products • Financial resources • Capital resources b. Banking • Cash flow • Interest rates • Lending feasibility • Estimation on the number of depositors c. Economics • Imports and exports • Inflation rates • Per capita income • Law of Supply and Demand d. Education • Assessments on student's performance • Planning for educational design and curriculum • Policy planning for school system e. Mathematics • Dispersion • Precision in describing results on measurements	presentation, analysis, and interpretation of data. ✓ Statistics is being used in various fields of discipline, such as business statistics, medical statistics, statistics for historians, in education, government and many more. ✓ In Statistics we commonly use the terms population and sample. ✓ A <i>population</i> is a complete collection of all elements (scores, people, ...) to be studied. ✓ A <i>census</i> is a collection of data from every element in a population. ✓ A sample is a sub-collection of elements drawn from a population ✓ Knowledge of statistics can help you become more critical in your analysis of information.	and interpretation of data. ✓ Statistics is being used in various fields of discipline, such as business statistics, medical statistics, statistics for historians, in education, government and many more. ✓ In Statistics we commonly use the terms population and sample. ✓ A <i>population</i> is a complete collection of all elements (scores, people, ...) to be studied. ✓ A <i>census</i> is a collection of data from every element in a population. ✓ A sample is a sub-collection of elements drawn from a population Knowledge of statistics can help you become more critical in your analysis of information.	a. interview method is done when a person solicits information from another person (face-to-face) b. questionnaire method is done through the use of printed questions regarding a certain matter (pen and paper) 2. Observing the Outcomes of Events/ Observation- the person who gathers data is called investigator while the person/object being observed is called the subject. 3. Experimentation is used by physicists and behavioral scientists in collecting data. 4. Reading Statistical Publication/ Registration Method- refers to continuous, permanent, compulsory recording
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	Estimation of Values			of the occurrence of vital events together with certain identifying or descriptive characteristics concerning them
I. Evaluating learning	Match each field of study under Column A to its importance of statistics under column B Column A - Education - Psychology - Business and Economics - Medicine - Demographics Column B - Monitor status of customers, employees, orders, and production. - Study of the size, vital characteristics of the population, and how they might change over time. - Determine attitudinal patterns, the causes and effects of misbehavior. - Assess students' performance and correlate factors affecting teaching and learning processes.	Write 3 problems in the real life that shows the application of Statistics using the idea of population and sample. Underline the population once and twice the sample.	by the populations and samplings using the given scenarios. - A beverage company wanted to see if people in the United States liked their new logo. P- _____ S- _____ - A musician wanted to see what people who bought his last album thought about the songs. P- _____ S- _____ - Before a nationwide election, a polling place was trying to see who would win. P- _____ S- _____	Column A with column B. Write the letters of your answer. Column A Data collected using face-to-face interviews or questionnaires A small part of a group chosen to represent the whole group The information collected The person who gathers data the observation method The method used by the physicist in collecting data Column B a survey experimentation sample investigator

	e. Collect information about patients and diseases and to make decisions about the use of new drugs or treatment.			
d. Additional activities for application or remediation	1. Follow-up another importance of statistics that use in your home. 2. Study Study the fields of statistics.	Up: own some agencies in our society that uses statistics and explain how they use it. Give at least 2 agencies. Example: National Statistics Office; gathering information about population here in our country.	Study: Simple Instruments Statistical	2. Follow-up at a survey form and answer the following questions: a. Give the objective of the survey. b. Describe some of its good parts. c. Give suggestions to improve it. 2. Study: ent Kinds of Graphs
V. REMARKS				
VI. REFLECTION				
1. No. of learners who earned 80% on the				

formative assessment				
2. No. of learners who require additional activities for remediation.				
3. Did the remedial lessons work? No. of learners who have caught up with the lesson.				
4. No. of learners who continue to require remediation				
5. Which of my teaching strategies worked well? Why did these work?				
6. What difficulties did I encounter which my principal or supervisor can help me solve?				
7. What innovation or localized materials did I use/discover				

which I wish to share with other teachers?				
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