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Mathematics

Quarter 4 – Module 79:

Likelihood of an Event

Department of Education · Republic of the Philippines

Mathematics – Grade 3
Alternative Delivery Mode
Quarter 24– Module 79: Likelihood of an Event

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Quarter 4 – Module 79: Likelihood of an Event

This instructional material was collaboratively developed and reviewed by educators from public and private schools, colleges, and or/universities. We encourage teachers and other education stakeholders to email their feedback, comments, and recommendations to the Department of Education at action@deped.gov.ph.

We value your feedback and recommendations.

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Introductory Message

For the facilitator:

(This gives an instruction to the facilitator to orient the learners and support the parents, elder sibling etc. of the learners on how to use the module. Furthermore, this also instructs the facilitator to remind the learners to use separate sheets in answering the pre-test, self-check exercises, and post-test.)

For the learner:

(This communicates directly to the learners and hence, must be interactive. This contains instructions on how to use the module. The structure and the procedure of working through the module are explained here. This also gives an overview of the content of the module. If standard symbols are used to represent some parts of the module such as the objectives, input, practice task and the like they are defined and explained in this portion.)

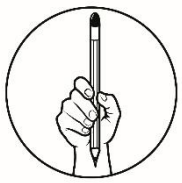
What I Need to Know

(Introduction)

This module is designed and written with you in mind. It is here to help you to understand the likelihood of an event, whether it is sure, likely, most likely, equally likely, unlikely, and impossible to happen. The scope of this module permits it to be used in many different learning situations. The language used recognizes the diverse vocabulary level of students. The lessons are arranged to follow the standard sequence of the course. But the order in which you read them can be changed to correspond with the textbook you are now using.

After going through this module, you are expected to:

1. Tells whether an event is sure, likely, equally likely, most likely, unlikely, and impossible to happen.



What I Know

(Pre-test)

Direction: Tells whether the chances is **sure, likely, equally likely, unlikely, most likely, and impossible to happen.**

1. You will pass this grading period.
2. Glen and Abdul can get the highest Rank in the class.
3. You will have a glass of milk for lunch.
4. Your father arrive tomorrow.
5. Your School principal will visit the school.
6. The activity starts at 11:00 am.
7. There will be fireworks on New Year's Eve.
8. You will see a rainbow today.
9. You will see a falling star tonight.
10. You will receive five peso from your god mother this afternoon.

Lesson

Tells whether an Event is sure, likely, equally likely, unlikely, impossible to happen

(Lesson Proper/Setting Up the Phase)

Introduction to lesson.

In this leson, you will learn about the likelihood of an event, you will be able to tell the event or the real life-situations whether it is *sure, likely, equally likely, most likley, unlikely, and impossible to happen*.This is also called a mathemtics of chance , the probability, where in it deals with chances. When we do something and we expecting a result by chance or we are not certain of what the result will be, in probability, we call it an experiment. The uncertain result is called an *outcome.*

In real life situation, whenever we do an experiment, two things can happen, either the one that we expect or the one that we do not. When the result is what we expected, then it is favorable outcome.

What's In

(Review/Pre-requisite topics/Prior Knowledge

Review

Given situation: Tossing two (2) coins at once.

Let's toss a coin. Raise your ***right hand if you are for the tail and tail,*** and ***left hand if you are for head and head.*** *And you* ***stand if you are in favor for both tail and head.***

Possible outcome:	*Number of learners'*
Head and head	
Tail and tail	
Combination of head and tail	

If you choose a tail or head or a combination of head and tail, will you be sure that your choices will come true upon tossing the two coins?

Notes to the Teacher

In this module, learners' are expected to learn how to comprehend the likelihood of an event by telling whether it is sure, likely, equally likely, most likely, unlikely and impossible to happen, and give the description of the following chances. When they choose sure to happen then it is in number 1, most likely to happen is ¾ chances, and equally likely means ½ chances, and unlikely to happen its ¼ chances and 0 chances when they choose impossible to happen. As for the teacher as facilitator, make sure to give learner's what they expected to learn from this module in order for them to relate in a real-life situations that will give impact on their learning and become more meaningful in their lives as a learner.

What's New

(Presentation of the Lesson/Contextualized Activity)

Situation 1

There are 5 balls (made of coconut leaves) inside the box.

- What objects will I pick from the box? Will I be sure that every time I pick an object it will be a ball? Why?

- Situation 2

2 guava fruit are added inside the box.

- Do you think I will always pick a ball now? Will I be sure that every time I pick it will be balls? Why? What do you think will be my chance of getting a ball, will it be most likely or sure to happen? Why?

Situation 3

3 more guava fruit inside the box are added.

- Now, what is the likelihood that I will get a guava fruit? A ball made of coconut leaves? Why?

What is It

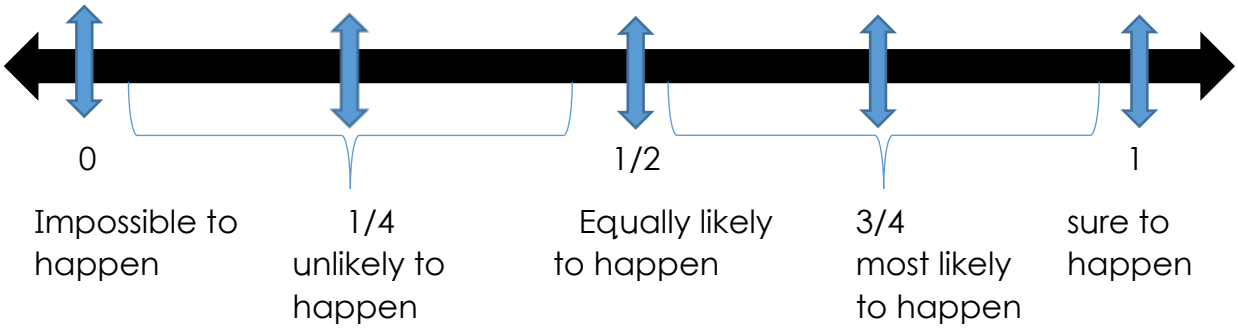
(Discussion of the Lesson)

Based on the above situation number 1, ball will be picked. This is sure because all the objects inside the box are balls.

As to situation number 2, the ball is most likely to be picked because there are 5 balls and there are only 2 guavas added inside the box.

And to situation number 3, balls and guavas are equally likely to be picked because there are the same number of balls made of coconut leaves and guava fruit inside the box.

Below is the number line that shows the different chances of an event to happen and its corresponding description.



The chance that something will happen how likely it is that some event will happen is called **probability**.

What's More

(Drill, Practice Test, Enrichment Activities)

Drill:

Activity 1:

Divide the class into 5 groups. Provide each group with the following events/situations written in strips of cartolina or card board. Say: What do you think is the chances of the following event or situation to happen the next day, Will it be **impossible, unlikely, equally likely, most likely or sure to happen**? Why? Let them write their answers on the ½ of manila paper as their answer sheets.

_____1. Tomorrow will be a sunny day?

_____2. You will eat sandwich during lunchtime.

_____3. You will have a Periodic test.

_____4. It will rain.

_____5. Every one of you will play labo-labu. (An IP game compose of 5 female players with the use of ball (made of coconut leaves) as hitter to the opponent.)

_____6. All of you will go to the mountain.

Ask: What events or situations in our activities are?

- Sure to happen? _____
- Impossible to happen? _____
- Unlikely to happen? _____
- Equally likely to happen? _____
- Most likely to happen? _____

Reinforcing the Concept:

Activity 2:

Write Impossible to happen, unlikely, equally likely, likely, most likely, and sure to happen in the space provided after each questions.

1. If you pick a colored chalk without looking, what will be the chances that you will pick a yellow color? _____

2. A chances that all learners' of grade 3 will go to a field trip. _____

3. Zero possibility that Mathematics book will be able to talk. _____

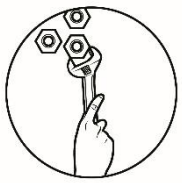
4. A chances that Maria will bring Ice cream this afternoon. _____

5. Maria said that ½ of the chances that her sister will give birth to a baby boy._____

What I Have Learned

(Generalization)

After several of activities and discussions, even relating to real life-situations of an events, and now, we already know about the likelihood of an events whether it is sure or certain, likely, equally likely, unlikely, most likely and impossible to happen and its corresponding description. The chance that something will happen and how it is that some event will happen is called a probability- a mathematics of chances.



What I Can Do

(Application)

Direction: The Following are the given list of chances or events. Match the events to the table below that are ***sure, likely, equally likely, most likely, unlikely, and impossible to happen*** to them.

1. I will climb Mt. Apo.
2. Typhon Tisoy will hit our Province this week.
3. Everyone will celebrate Christmas.
4. I can live even without eating for 5 days.
5. I got perfect score in Mathematics periodical test.

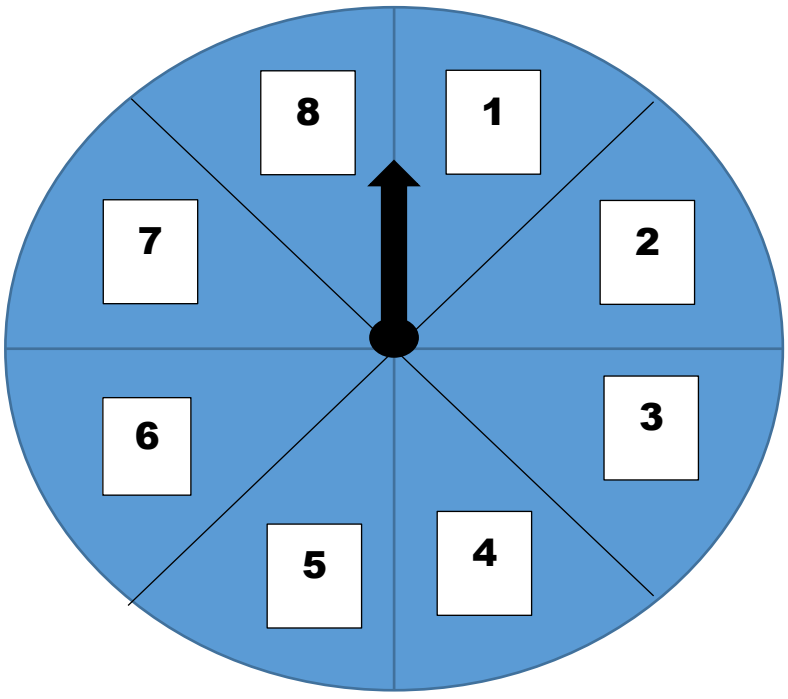
Impossible to happen (Not a chance this will happen)	Unlikely to happen (Could happen, Probably happen)	Equally likely to happen(Even Chances)	Most likely to happen (Could happen)	Sure/Certain (Absolutely will happen)

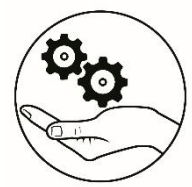
Assessment

(Post-test)

Direction: State the possible chances of spinner to point at a given numbers whether it is sure, likely, equally likely, most likely, unlikely, and impossible to happen. Write your answer on the space provided.

1. even numbers _____
2. odd numbers _____
3. factors of 8 _____
4. multiple of 2 _____
5. number 10 _____
6. multiple of 3 _____
7. factors of 6 _____
8. zero _____
9. multiple of 4 _____
10. factors 0f 24 _____





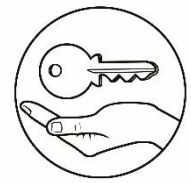
Additional Activities

(Supplementary activity/activities)

What are the chances of every event in your life? Write check mark (√) under the correct category of every event.

WHAT ARE THE CHANCES?

	Impossible to happen	Unlikely	Equally likely	Likely	Sure
1. Meet a TV Personality					
2. Can go to school					
3. Can join the flag Ceremony					
4. Can play a computer game					
5. Drink milk					
6. Read a book					
7. Can sleep under the tree					
8. Can go to the moon					
9. Wash clothes					
10. Can eat candies					



Answer Key

Answer Key

- The answer could depend also on the answer of the learners'

What I know	What's More	Assessment
1. likely 2. likely 3. equally likely 4. equally likely 5. sure 6. unlikely 7. sure 8. impossible to happen 9. impossible to happen 10. unlikely	1. most likely 2. likely 3. sure 4. impossible to happen 5. impossible to happen 6. unlikely	1. most likely 2. most likely 3. likely 4. likely 5. impossible to happen 6. unlikely 7. most likely 8. impossible to happen 9. unlikely 10. unlikely

References

Mathematics Grade 3, Teacher's Guide Grade pp. 180-183

Mathematics Garde 3, Learner's Materials pp. 330-340

21st Century Mathletes Textbook, Grade 5. Pp. 355, 362

For inquiries or feedback, please write or call:

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