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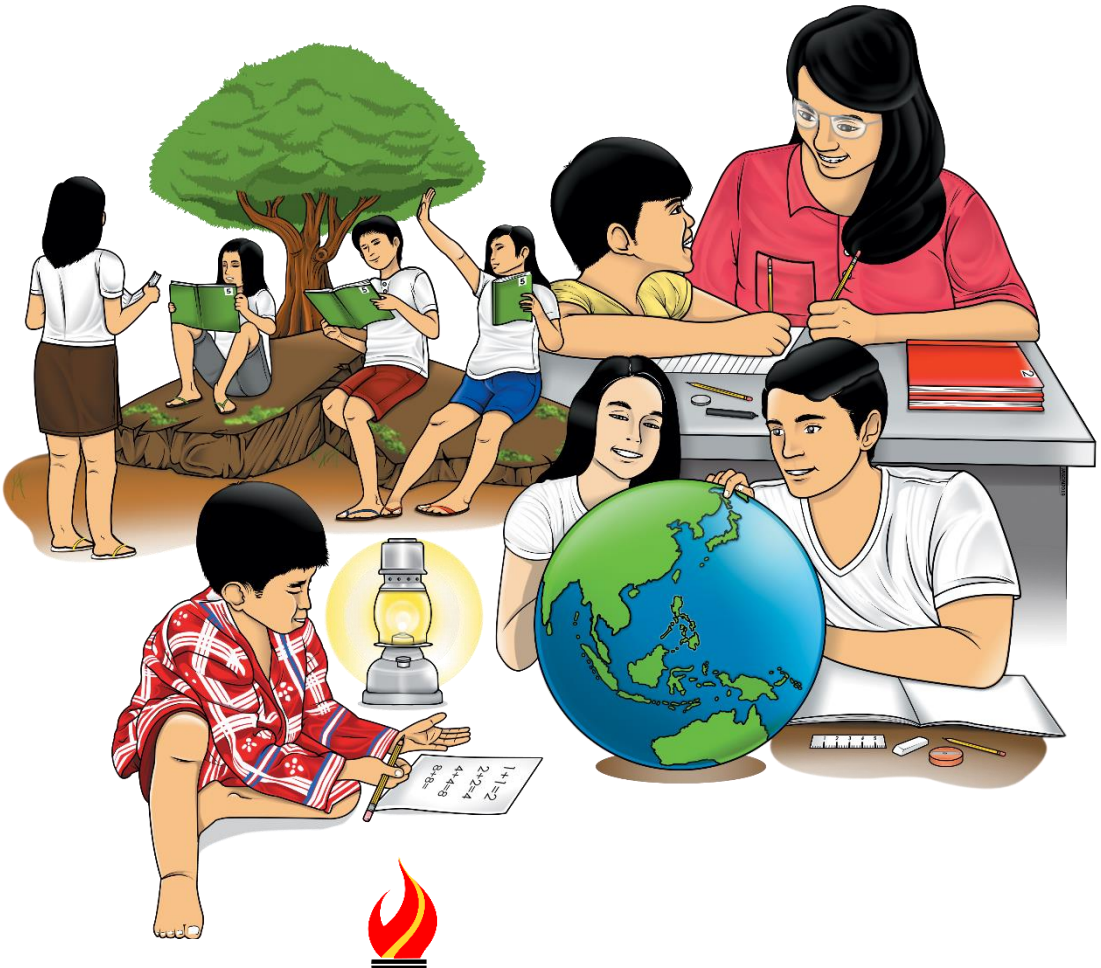
Mathematics

Quarter 4 – Module 63: Visualizes , Represents and Converts Time Measure

(Competency no. 63) Visualizing, Representing and Converting Time Measures



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Quarter 4 – Module 63: Visualizes , Represents and Converts Time Measure

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 module is to be used during the class discussion about the topic. It is equipped with all the needed activities and learning output.

Let the learners explore the designed activities and help them when they find it difficult in understanding some of the topics.

Explain to them that they need extra paper to answer the activities inside this module.

For the learner:

This module is created for you to be able to understand the lesson well. It was crafted based on your level of understanding so that you could catch up the lesson easily.

Take good care of it for this is created for you alone.

Hoping that after learning this module the rest of the lessons would be easier for you.

What I Need to Know

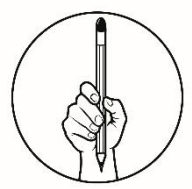
This module was designed and written with you in mind. It is here to help you visualize, represent and convert time measure. The scope of this module permits it to be used in many different learning situations. The language used recognizes the diverse vocabulary level of the learners. The lessons are 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. Visualize time measure;

2. Represent time measure; and

3. Convert time measure from seconds to minute; minutes to hours; hours to da day and vice versa.



What I Know (pre-test)

Tell what time is shown. Write the letter of the correct answer on a separate sheet of paper.

1. 

2. 

3. 

4. 

5. 

a. 4 o'clock

b. 2 o 'clock

c. 5 o 'clock

d. 9 o'clock

e. 3 o'clock

Lesson Visualizes , Represents and Converts Time Measure

In this lesson the learners will be able to visualize, represent and convert time measure from seconds to minutes, minutes to hours, and hours to a day and vice versa. The learner's will also learn to use the time wisely.

What's In

(Review/Pre-requisite topics/Prior Knowledge)

Prior to this lesson the learners should have mastered multiplication and division facts. To test those knowledge answer the following questions.

1. 30	2. 60	3. 60	4.1 440	5. 2 130
X 2	÷ 2	x 24	÷ 24	÷ 60

Notes to the Teacher

This lesson is essential to the everyday schedule of the learners. Let them explore every detail of this module and assist them every time they encounter difficulty in understanding the lesson. Tell them to provide another sheet of paper for their answer. Let them enjoy the whole journey of discussing the module.

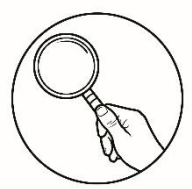
What's New

Look at these pictures. How long does it take you to do this every morning?

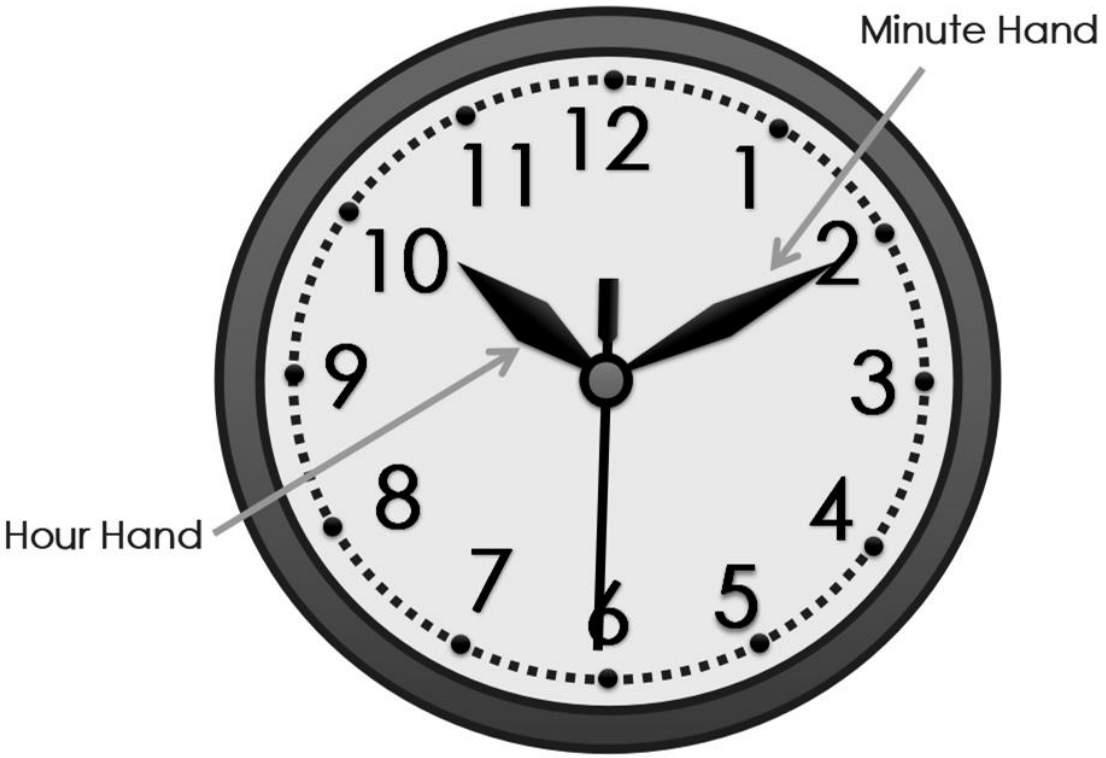
Why do we have to take good care of our body?

Why is it important to be aware of time?

Why do we have to use time wisely?



What is It



Above is an example of a clock the **Hour Hand (shorter hand)** tells the hours , it is read as 1 , 2 , 3 4 until 12. While the **Minute Hand (long hand)** tells the minutes. It skips counting by 5 minutes and read as 5, 10, 15, 20 until 55. When the minute hand points to 12, the time is carried to the next hour and is read as "o'clock ''. There are 60 seconds in one minute 60 minutes is equal to one hour and 24 hours is equivalent to one day.

Remember 60 seconds = 1 minute
60 minutes = 1 hour
24 hours = 1 day

9:10

3:00

10: 10

The clock shows the different positions of the minute hand and how they are read. The time below shows one half hour or 30 minutes count by 5 times to 30 to show half hour

2:30 a.m. means the time read is in the morning.

2:30 p.m. means the time read is in the afternoon.

Now do you know how many minutes are there in 2 hours?

Since there are 60 minutes in one hour, we just simply multiply 2 by 60 and get 2 x 60 = 120. Therefore there are 120 minutes in 2 hours.

60 minutes x 2 hours = 120 minutes

To change a smaller unit of time to bigger unit, we perform division.

Example: seconds to minutes

360 seconds = _____ minutes

360 seconds ÷ 60 minutes = 6 minutes

How many minutes in 150 seconds?

150 seconds ÷ 60 minutes = 25 minutes

To convert minutes to second we multiply the minutes by 60

Example: 30 minutes = _____ seconds

30minutes x 60 seconds = 1,800 seconds

How many seconds in 5 minutes?

5 minutes x 60 seconds = 300 seconds

How many seconds in 960 minutes?

19 minutes x 60 seconds = 1 140 seconds

To convert minutes to hours, we just divide the number of minutes by 60.

Example, 180 minutes is the same as 3 hours since

180 minutes ÷ 60 = 3.

How many hours in 960 minutes?

960 minutes ÷ 60 = 16 hours

To get the number of days divide the number of hours by 24.

Example: 300 hours = _____ days

300 ÷ 24 = 13 days

How many days in 48 hours?

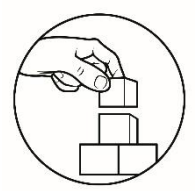
48 hours ÷ 24 = 2 days

To get the number of hours , multiply the number of days by 24.
Example: 30 days = _____ hours

30 x 24 = 720 hours

How many hours in 7 days?

7 days x 24 hours = 168 hours



What's More

Activity 1

Answer the following activity

1. 

In 30 minutes the time will be

2. 

After 45 minute the time will be

3. Mr. Guevara wrote hi lesson plan for 120 minutes. How many hours did he wrote the lesson plan?

4. Nathan runs the 10 kilometer marathon in 5 hours. How many minutes did he run?

5. After 30 minutes the time will be

What I Have Learned

1. To convert seconds to minutes, divide the number of seconds by 60.
2. To convert minutes to seconds, multiply the minutes by 60.
3. To convert minutes to hours, divide the number of minutes by 60.
4. To convert hours to minutes, multiply the number of hours by 60.
5. To get the number of days, divide the number of hours by 24.
6. To get the number of hours, multiply the number of days by 24.

What I Can Do

Convert the following:

1. 9 hours = _____ minutes

2.120 minutes = _____ hours

3. 2 days = _____ hours

4. 300 hours = _____ days

5. 200 seconds = _____ minutes

Assessment

Use the Time Conversion Table below to answer the questions that follow.

60 seconds = 1 minute
60 minutes = 1 hour
24 hours = 1 day

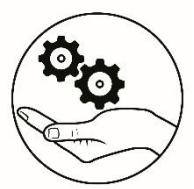
1. How many minutes are there in 2 hours? _____

2. How many seconds are there in 4 minutes? _____

3. How many hours are there in 3 days? _____

4. How many minutes make 5 hours? _____

5. How many minutes make one day? _____



Additional Activities

Change the given measures into the indicated time unit.

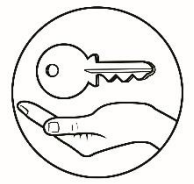
1. 120 second = _____ minutes

2. 720 minutes = _____ hours

3. 5 days = _____ hours

4. 500 hours = _____ days

5. 3 600 seconds = _____ minutes



Answer Key

What I Know	What's More	Assessment
1. B 2. D 3. A 4. E 5. C	1. 3:30 2. 5:45 3. 2 hours 4. 300 minutes 5. 2	1. 120 minutes 2. 240 seconds 3. 72 hours 4. 300 minutes 5. 1 440 minutes

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