4

Mathematics 4
Microlearning Module

QUARTER 2 – Module 9

Converting time measures from smaller to larger units, and vice versa

Microlearning Module

REGION XII - DIVISION OF SULTAN KUDARAT

Mathematics 4
Quarter 2 MLM 9: Converting time measures from smaller to larger units, and vice versa
First Edition, 2024

Published by the Department of Education- RO XII, Division of Sultan Kudarat

Printed in the Philippines by

Department of Education – Region XII, Division of Sultan Kudarat

Microlearning Module

Name: _____ Grade & Sec: _____ Score: _____
Subject: Mathematics 4   Quarter: 2   MLM No. 9
Teacher: _____
Competency: Convert time measures from smaller to larger units, and vice versa

---

A. Look Back!

Convert the following units of measure from larger to smaller units and vice versa.

1. 40 m= _____cm
2. 170 cm = _____m
3. 3.5 km = _____m
4. 540 m = _____km
5. 25 kg = _____g

B. What's New?

Look at these pictures. How long does it take for you to do all these things?

Toothbrushing   taking a bath   combing hair
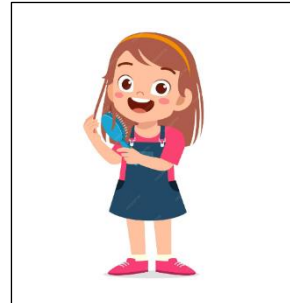
C. What Is It?

What Is Time?

Time can be defined as an ongoing and continuous sequence of events that occur in succession, from the past through the present, and to the future.

Time is used to quantify, measure, or compare the duration of events
or the intervals between them, and even, sequence events.

What are the units of time?

The basic units of time are **seconds**, **minutes**, **hours**, **days**, **weeks**, **months**, and **years**. We use seconds, minutes, and hours to tell the time of the day while we use days, months, and years to tell the date. Seconds, minutes, and hours are smaller units of time while days, months, and years are bigger units of time.

> **Units of time**
>
> 1 minute = 60 seconds
> 1 hour = 60 minutes
> 1 day = 24 hours
> 1 week = 7 days
> 1 month = 4 weeks
> 1 month= 30 days
> 1 year = 12 Months
> 1 year = 365 days

1. **Second to minute**

   Remember: 1 minute = 60 seconds
   Divide the time by 60
   120 seconds = _____ minutes
   120 ÷ 60 = | 2 minutes |

2. **Minute to second**

   Multiply the time by 60
   30 minutes = _____ seconds
   30 x 60 = | 1800 seconds |

3. **Minute to hour.**

   Divide the time by 60
   120 minutes = _____ hours
   120 minutes = | 2 hours |

4. **Hour to minute**
   Multiply the time by 60
   3 hours = _____ minutes

3 hours x 60 = 180 minutes

5. **Days to hours**
Multiply the time by 24
Remember: 1 day = 24 hours
3 days = ____ hours
3 days x 24 = 72 hours

6. **Hours to days**
Divide the time by 24
48 hours = ____ days
48 hours ÷ 24 = 2 days

7. **Weeek to days**
Multiply the time by 7
4 weeks = ____ days
4 weeks x 7 = 28 days

8. **Days to weeks**
Divide the time by 7
35 days = _____ weeks
35 days ÷ 7 = 5 weeks

9. **Months to weeks**
Multiply the time by 4 weeks
1 month = 4 weeks
3 months = _____ weeks
3 months x 4 = 12 weeks

10. **Weeks to Months**
Divide the time by 4
8 weeks = _____ Months
8 weeks ÷ 4 = 2 Months

11. **Year to Months**
Multiply the time by 12
1 year = 12 months
5 years = _____ Months
5 years x 12 = 60 Months

12. **Months to Years**
Divide the time by 12
72 Months = _____ years
72 Months ÷ 12 = 6 years

> **Remember: In converting a larger unit to a smaller unit, use multiplication, while in smaller unit to a larger unit, use division.**

D. Let's try!

Directions: Convert the following:

1. 10 hours into minutes _____
2. 120 minutes into hours_____
3. 144 hours into days _____
4. 3 days into hours_____
5. 21 days into weeks_____
6. 8 weeks into days _____
7. 5 months into weeks _____
8. 16 weeks into months _____
9. 72 Months into Years _____
10. 5 years into months_____

E. Let's Evaluate!

Directions.

Read the given problem carefully and solve it.

1. Mary is helping her mother in washing their clothes every Saturday morning. They begin at 7:30 a.m. and end at 10:30 a.m. How many hours do they wash their clothes? What is its equivalent in minutes?

   _____

2. The Martin family went on a vacation in the province for 84 days. How many weeks do they have for their vacation?

   _____

3. Mrs. Razon cooked the food within 120 minutes. How many hours did she cook the food?

   _____

4. John stayed in Singapore for 1 year, 7 months, 3 weeks, and 2 days. How many days did he stay abroad?

   _____

5. RJ went abroad last January 30, 2019, and returned to the country last January 30, 2024. How many months did he spend abroad?

   _____

F. References

Chingcuangco, Ofelia G. and Federico C. Castillo.Soaring High With Mathematics Saint Matthews Publishing, Quezon City , 2019

Periwinkle. (2019, June 2). Time Conversion of Units of Time | Mathematics Grade 4 | PeriWinkle [Video]. YouTube. https://www.youtube.com/watch?v=gGo6t6Z0rCg

Maricar Nicdao. (2021, May 23). SOLVES PROBLEMS INVOLVING CONVERSION OF TIME MEASURE [Video]. YouTube. https://www.youtube.com/watch?v=RkCGWrBsDXA

REGION XII - DIVISION OF SULTAN KUDARAT

A. Look Back!

1. 4,000 cm
2. 0.17 m
3. 3,500 m
4. 0.54 km
5. 25,000 g

D. Let's Try!

Convert the following.

1. 600 Minutes
2. 2 hours
3. 6 days
4. 72 hours
5. 3 weeks
6. 56 days
7. 20 weeks
8. 4 Months
9. 6 Years
10. 60 Months

C. Let's Evaluate.

Read Carefully the given problem and solve.

1. Mary is helping her mother in washing their clothes every Saturday morning. They begin at 7:30 a.m. and ends at 10:30 a.m. How many hours did they wash the clothes? What is its equivalent in minute? *3 hours = 180 minutes*

2. The Martin Family went on a vacation at the province for 84 days. How many weeks do they have for their vacation?

84 ÷ 7 = 12 weeks

3. Mrs. Razon cooked the food within 120 minutes. How many