

Mathematics 4

Microlearning Module

QUARTER 2 – Module 9

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



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**

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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?

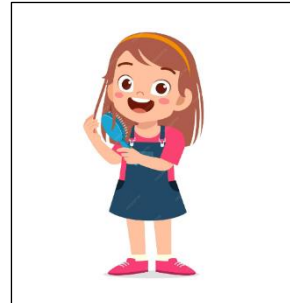
Look at these pictures. How long does it take for you to do all these things?



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

$$120 \div 60 = \boxed{2 \text{ minutes}}$$

2. Minute to second

Multiply the time by 60

30 minutes = _____ seconds

$$30 \times 60 = \boxed{1800 \text{ seconds}}$$

3. Minute to hour.

Divide the time by 60

120 minutes = _____ hours

$$120 \text{ minutes} = \boxed{2 \text{ hours}}$$

4. Hour to minute

Multiply the time by 60

3 hours = _____ minutes

$$3 \text{ hours} \times 60 = 180 \text{ minutes}$$

5. Days to hours

Multiply the time by 24

Remember: 1 day = 24 hours

$$3 \text{ days} = \underline{\quad} \text{ hours}$$

$$3 \text{ days} \times 24 = 72 \text{ hours}$$

6. Hours to days

Divide the time by 24

$$48 \text{ hours} = \underline{\quad} \text{ days}$$

$$48 \text{ hours} \div 24 = 2 \text{ days}$$

7. Weeek to days

Multiply the time by 7

$$4 \text{ weeks} = \underline{\quad} \text{ days}$$

$$4 \text{ weeks} \times 7 = 28 \text{ days}$$

8. Days to weeks

Divide the time by 7

$$35 \text{ days} = \underline{\quad} \text{ weeks}$$

$$35 \text{ days} \div 7 = 5 \text{ weeks}$$

9. Months to weeks

Multiply the time by 4 weeks

$$1 \text{ month} = 4 \text{ weeks}$$

$$3 \text{ months} = \underline{\quad} \text{ weeks}$$

$$3 \text{ months} \times 4 = 12 \text{ weeks}$$

10. Weeks to Months

Divide the time by 4

$$8 \text{ weeks} = \underline{\quad} \text{ Months}$$

$$8 \text{ weeks} \div 4 = 2 \text{ Months}$$

11. Year to Months

Multiply the time by 12

$$1 \text{ year} = 12 \text{ months}$$

$$5 \text{ years} = \underline{\quad} \text{ Months}$$

$$5 \text{ years} \times 12 = 60 \text{ Months}$$

12. Months to Years

Divide the time by 12

$$72 \text{ Months} = \underline{\quad} \text{ years}$$

$$72 \text{ Months} \div 12 = 6 \text{ years}$$

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

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

$$84 \div 7 = 12 \text{ weeks}$$

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

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**

Read Carefully the given problem and solve.

C. Let's Evaluate.

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

Convert the following.

D. Let's Try !

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

A. Look Back!