



Microlearning Module

QUARTER 2 – Module 8

Converting common units of measure from larger to smaller units, and vice versa



Mathematics 4 Quarter 2 MLM 8: Converting common units of measure from larger to smaller units, and vice versa *First Edition, 2024*

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Microlearning Module

Name:	Grade & Sec:	Score:
Subject: Mathematics 4	Quarter <u>: 2</u>	MLM <u>No. 8</u>
Teacher:		
Competency: Convert commo	n units of measure fr	om larger to smaller
units, and vice versa		

A.Look Back!

What does MDAS stand for?

Compute the following using MDAS rules.

1. 4 x 6 ÷ 3 + 8= N 2. 7 + 6 -3 x 2= N 3. 16 ÷ 2 x 8- 25 = N 4. Find N in 12 ÷ 3 x 5 + 8 - 2 5. Find N in 20 ÷ 4 x 3 - 7 + 5

B. What's New?

Maris wants to know the length of her bedroom in meters, but she only has a ruler marked in centimeters. Will she be able to get the length of her room in her desired unit?

The answer is yes, only if she knows how to change centimeters to meters.

C. What Is It?

What is unit conversion?

A unit conversion expresses the same property as a different unit of measurement.

Conversion table
1 meter (m) = 100 centimeter (cm)
1 centimeter (cm) = 0.01 meter (m)
1 kilometer (km) = 1,000 meter (m)
1 meter (m) = 0.001 kilometer (km)
1 gram (g) = 0.001 kilogram (kg)

- 1 kilogram (kg) = 1,000 grams (g)
 1 gram (g)= 0.001 kilogram(kg)
 1 gram (g)= 1000milligram (mg)
 1 milligram = 0.001 gram (g)
 1 liter (L) = 1000 milliliter (ml)
 1 milliliter (ml)= 0.001 Liter
- **1**. How to convert meter (m) to centimeter (cm)? To convert the meter to cm, multiply the given meter value by 100 cm. For example, to convert 5 meters to cm, multiply 5 by 100 cm.

5 meters = ___cm

5 x 100

<u>500cm</u>

2. How to convert centimeters to meters?

To convert cm to m, multiply the given centimeter value by 0.01 m

1 centimeter = 0.01 meter

For example,

5cm = ____m

5 cm x 0.01 m

0.05 m

3. How to convert kilometer to meter?

To convert kilometer to meter, multiply the given kilometer value by 1000 meters.

1 kilometer = 1000 meter

For example,

5 km = ____ m

5km x 1000m

<u>5000 m</u>

4. How to convert meter to kilometer? To convert meter to kilometer, multiply the given meter value to 0.001 kilometer.

```
1 m = 0.001 km
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For example,

200m = ___km

200m x 0.001 km

0.2 km

5. How to convert kilogram to gram? To convert kilogram to gram, multiply the given kilogram value to 1000 gram

To convert kilograms into grams, multiply the number of kilograms by 1000. 1 kilogram = 1000 g

Example,

- 8 kg= ___ g
- 8 kg × 1000 g
- 8,000 g
- **6.** How to convert gram to kilogram? To convert gram to kilogram, multiply the given gram value to kilogram

1g =0.001 kg

Example,

500 g = ___kg

500 g x 0.001kg

<u>0.5 kg</u>

7. How to convert gram to milligram? To convert gram to milligram, multiply the given gram value to milligram

1g = 1000mg

Example,

3 g = __mg

3 g x 1000 mg

<u>3000 mg</u>

8. How to convert milligram to gram? To convert milligram to gram, multiply the given milligram value to gram.

1 mg = 0.001g

Example,

300 mg = ___g

300 mg x 0.001g

<u>0.3 g</u>

9. How to Convert liter to milliliter? To convert liter to milliliter, multiply the given liter value to milliliter.

1 Liter =1000ml

Example,

4 L = ____ml

4 L x 1000 ML

4000ML

10. How to Convert milliliter to liter? To convert milliliter to liter, multiply the given milliliter value to liter.

1ml = 0.001L

For example,

250 ml = ____1

250 x 0.001 1

<u>0.25 L</u>

D. Let's try!

Match column A with column B. Write your answer on a separate sheet of paper.

В

a. 5,000 b. 8,000 c. 0.225 d. 1.2 e. 500 f. 0.25 g. 3,000 h. 0.1 i. 0.175 j. 10,000

A	
1. 5 m =	cm
2. 120 cm =	m
3. 5 km =	m
4. 225 m =	km
5. 10 kg =	g
6. 100 g =	kg
7. 3 g =	mg
8. 250 mg =	g
9.8 L =	_ml
10. 175 ml =	L

E. Let's Evaluate!

Directions. Convert the following:

1. 30 m= ____cm 2. 130 cm = ___m 3. 1.5 km = ___m 4. 750 m = ___km 5. 35 kg = ___g 6. 450 g = ___kg 7. 26 g = ___mg 8. 550 mg = __g 9. 22 L = __ml 10. 100ml = __1

Math Challenge! ð Directions.

Directions.

On a separate sheet of paper, solve the following problems.

- 1. Jay rode 3 kilometers on his bike, while his sister Sally rode 5000 meters on her bike. Who rode the farthest, and how much farther did he/she ride than the other? (answer in km)?
- 2. Merly buys a reel of thread for sewing. There are 10 m of thread on the reel. She uses 310 cm. How much is left on the reel in centimeters?
- 3. 30 g serving of a certain breakfast cereal has 0.5 g of salt. How much salt would that be in milligrams?

F. References

Admin. (2020, November 16). Meter to Centimeters Calculator (Meter to Cm) | Convert m to cm. BYJUS. <u>https://byjus.com/meters-to-centimeters-</u> <u>calculator/#:~:text=How%20to%20Convert%20Meter%20to,mult</u> <u>iply%205%20by%20100%20cm.&text=Hencem%205%20meters</u> <u>%20is%20equal%20to%20500%20cm</u>

Grams to mg (g to mg) converter. (n.d.). https://www.rapidtables.com/convert/weight/gram-tomg.html

https://www.splashlearn.com/math-vocabulary/litres-to milliliters#:~:text=ml%20or%20mL.,Converting%20Liters%20to %20Milliliters,multiply%20the%20value%20by%201000

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Im 000,22	·6
0.55 g	.8
26,000 mg 3. 500,000 mg	.Γ
0.45 kg	·9
32 000 8 3 600 cm	<u>د</u>
m ooc, 1 1. Sally, 2 km	7
1.5 m Math Challenge!	3 .2
3,000 cm	.т
	F
Convert the following:	
.Let's Evaluate.	I
r.02	τ0.
19. b	.6
1.81	.8
g. ⁷¹	۲.
ч '91	.9
15. j	5.
14. c	.4
a. 13. a	3.
12. d	5.
ןן פּ הי הכנ א ווא	L
2. 13	
4. 26	
3, 39	
911	

Answer Key

Math Grade 4 Q2 LC8