Math Virtual Learning

4th Grade Measurement

April 9, 2020

4th Grade Math
Lesson: April 9, 2020

Learning Target:
Students will choose the correct metric unit
of measurement for objects.

Students will convert larger units of
metric measurement into smaller units.

Background:

- Students learned to choose the appropriate tool for measuring length in 3rd grade.
- Students learned to determine the measurement of the length of an object to the nearest centimeter in 3rd grade.

Let's Get Started:

Watch Videos:

1. [Brain Pop: Metric Units](#)
2. [Metric Conversions song](#)

Practice #1:
What is the best unit of measurement for the tree?

Practice #2:
What is the best unit of measurement for the eraser? Centimeters or Meters?

Think back to the video.
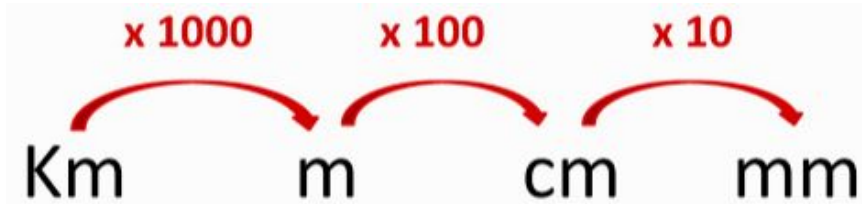- A centimeter benchmark is the size of your thumb nail.

Centimeters is correct!

Great job!

Practice #3:
Now time to convert larger units to smaller units.

All you have to do is multiply.

1 Km = 1000 meters (m)	1 meter = 100 cm
2 Km = 2000 m	2 meters = 200 cm
3 Km =	3 meters =
4 Km =	4 m =
5 Km =	5 m =
8Km	7 m =
9 Km =	10 m =

Practice #4:
Let's try converting measurement in a story problem.

Jacob rode his bike 3 kilometers to the lake. Then he walked 423 meters to his fishing spot. How many **meters** did Jacob walk in all?

Jacob walked _____meters

My Work:
3 Km = __?__ m

_?__ + 423 = _____ meters

*Remember to make all of the units of measure the same

My Work:

9 m = __?_____ cm

__?__ - 35 = second frame

? + second frame = total

Yasmin is making two frames. She needs 9 meters of wood for the first frame. She uses 35 centimeters less for the second frame? How many centimeters of wood does Yasmine need?

Yasmin needs _____ centimeters of wood.

Practice on your own:
Go to this website:
[Metric Conversions](#)

1. Take a look at the conversion chart they show you.
2. Then click start.
3. Click the units of measurement that match.

Practice Pages:

Click on picture to open worksheet.

Best Measuring Units

Name: _____ Date: _____

Circle the units that would work best for measuring each object.

(1) Your school's playground

meters   kilometers

(2) A hiking trail

meters   millimeters

(3) Your sister's hair

meters   centimeters

(4) A rope to play tug-of-war

centimeters   meters

(5) The length of a lizard

centimeters   meters

(6) The hands of a clock

millimeters   meters

(7) The distance to the next town

kilometers   meters

(8) The string needed to fly a kite

meters   kilometers

(9) The length of your nose

millimeters   meters

(10) A bar of soap

millimeters   meters

(11) A paperback book

meters   centimeters

(12) How far you can kick a ball

meters   centimeters

(13) The height of an office tower

meters   kilometers

(14) The height of the grass outside

meters   centimeters

(15) The height of your desk

centimeters   meters

(16) A windmill

centimeters   meters

(17) The length of your finger

millimeters   meters

(18) A bridge over a river

meters   millimeters

Metric units of length: kilometers, meters, centimeters and millimeters

Grade 4 Measurement Worksheet

Note: 1 kilometer (km) = 1,000 meter (m)
1 m = 100 centimeters (cm) = 1,000 millimeters (mm)

Convert to the units shown:

1. 31 m = _____ cm
2. 22 cm = _____ mm
3. 18 cm = _____ mm
4. 85 cm = _____ mm
5. 53 m = _____ cm
6. 49 m = _____ cm
7. 38 m = _____ cm
8. 28 m = _____ cm
9. 72 m = _____ cm
10. 57 m = _____ cm

Convert to the units shown:

11. 1,000 mm = _____ cm
12. 2,000 cm = _____ m
13. 7,000 cm = _____ m
14. 7,000 mm = _____ m
15. 3,000 cm = _____ m
16. 3,000 mm = _____ m
17. 1,000 cm = _____ m
18. 5,000 cm = _____ m
19. 2,000 mm = _____ m
20. 6,000 cm = _____ m

Self Check:
  Go tell someone in your home your answers.
1. Was this lesson?
    ❏   easy,
    ❏   just right
    ❏   hard

2. Find an item in your house that you would measure using centimeters, and one you would measure using meters. Tell someone what it is, and estimate the measurement. If you have a meter stick, check your estimate!