



Standard #: MA.5.G.5.2 Archived Standard

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Compare, contrast, and convert units of measure within the same dimension (length, mass, or time) to solve problems.

Grade: 5

Supporting Idea: [Geometry and Measurement](#) - Geometry and Measurement

Date Adopted or Revised: 09/07

Content Complexity Rating: [Level 2: Basic Application of Skills & Concepts](#) - [More Information](#)

Date of Last Rating: 06/07

Status: State Board Approved - Archived

Assessed: Yes

Remarks/Examples

Example: Convert 96 inches to the equivalent length measured in yards. 96 inches = yards

Example: Convert 12.5 centimeters to millimeters.

12.5 centimeters = millimeters

Students at this level are not expected to convert between different measurement systems.

TEST ITEM SPECIFICATIONS

Item Type(s): This benchmark may be assessed using: [MC](#), [GR](#) Item(s)

At Grade 5, this benchmark will be assessed using MC and GR items.

Clarification :

Students will compare, contrast, and convert units of measure within the same measurement system (i.e., either customary or metric).

Content Limits :

Items may include linear measure, weight/mass, time, or elapsed time (to the nearest minute).

Items will not include time zones.

Items may include either analog or digital clocks but not both within the same item.

Items will not include the use of proportions or equivalent ratios to convert between different measurement systems.

Items may include up to two conversions within the same system of measurement.

Items may include multiplying or dividing by multiples of ten.

Items involving the metric system may include decimals.

Items may require students to add and subtract measurements.

Stimulus Attributes :

Items must be set in a real-world context.

Items will not require students to divide by decimals.

Items that are set in real-world context may use length and width as dimensions as well as base and height as dimensions.

Response Attributes :

Responses may include decimals up to five digits

(e.g., 250 centimeters = 2.5 meters).

SAMPLE TEST ITEMS (2)

Test Item #: [Sample Item 1](#)

Question: The students in Mrs. Zavala's fifth-grade class went on a field trip to the zoo. They arrived at the zoo in the morning and left the zoo in the afternoon. The clocks below show the time when the class arrived at the zoo and the time the class left the zoo.

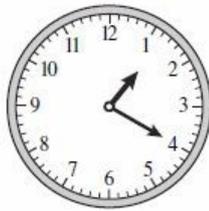
Time Mrs. Zavala's

Time Mrs. Zavala's

Class Arrived at the Zoo



Class Left the Zoo



Based on the times shown, for how long was Mrs. Zavala's class at the zoo?

Difficulty: N/A

Type: MC: Multiple Choice

Test Item #: Sample Item 2

Question: The vending machine shown below can hold up to 24 bags of pretzels. Each bag contains 1 ounce of pretzels. What is the total number of pounds of pretzels in 24 bags of this size?



Difficulty: N/A

Type: GR: Gridded-Response

Related Resources

Lesson Plan

Name	Description
Give An Inch, Take A Foot:	In this activity students practice measuring techniques by measuring different objects and distances around the classroom. They practice using different scales of measurement in metric units and estimation.
Storage for Storage:	In this MEA, 5th Grade students will work in teams to determine a procedure for ranking Storage Sheds for a construction company that is moving to a new facility to purchase. Students will need to calculate the square feet and cubic feet of space for the Storage Shed, make decisions based on a table of data, and write a letter to the client providing evidence for their decisions.