NAME

Module 12Attributes and ToolsLesson 2Same System Conversions



Lesson Objectives

- Make conversions within the same measurement system, either customary or metric, in real-world problems (e.g. hours to minutes to seconds, meters to centimeters, feet to inches, liters to milliliters, quarts to gallons, etc).
- Make conversions using time in real-world problems.

Subtopic 1	Converting Customary Units	
Length	Weight	Capacity
12 in. = 1 ft	oz = 1 lb	8 fl oz = 1 c
3 ft = 1 yd	1b = 1 T	$_c = 1 pt$
yd = 1 mi		2 pt = 1 qt
ft = 1 mi		qt = 1 gal

Ruby must be at least 48 inches tall in order to ride the Flying Super Saturator. She is four feet, eight inches tall. Is Ruby tall enough to ride? Explain.



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Eddie's moon dog weighs 234 ounces. What is the dog's weight in pounds and ounces?



Luria drank five cups of water after her walk. How many pints did she drink?

Subtopic 2 Converting Metric Units

The diagram shows the course for a walk-a-thon. Julio's goal is to walk five kilometers. He walks the perimeter of the course twice. Does Julio reach his goal? Explain.





An Earth math book has a mass of five kilograms. What is the mass in grams?

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A bathroom sink holds 4,500 milliliters of water. How many liters does it hold?



Converting Time Units

Time Unit Equivalents

60 seconds (sec) = 1 minute (min)

 $____ minutes (min) = 1 hour (h)$

24 hours (h) = 1 day (d)

7 days (d) = 1 week (wk)

12 months (mo) 1 year (yr) = 52 weeks (wk) _____ days (d)

10 yr = 1 decade 100 yr = 1 _____

 $____ yr = 1$ millennium



Jermaine finished a race in three minutes, 45 seconds. What was his time in seconds?