

TOPIC 13

Time, Customary and Metric Measurement



OVERVIEW

Topic 13 focuses on extending your child's understanding of time, temperature, liquid volume (capacity), weight, and mass. Your child will solve problems involving estimation and measurement of time, temperature, liquid volume, weight, and mass in class.

TIME

To tell time on an analog clock, your child needs to understand the meaning of the numbers and tick marks on a clock. To solve problems involving elapsed time, your child should understand the relationship between hours and minutes as well as the difference between A.M. and P.M.

TEMPERATURE

In class, your child will measure temperature in degrees using both the Fahrenheit and Celsius scales. Your child will apply their understanding of number lines as they read scales on thermometers.

LIQUID VOLUME (CAPACITY)

Liquid volume is the amount a container can hold. To estimate and measure liquid volume, your child needs to apply an understanding of number lines and fractions when reading scales on measuring containers.



The liquid volume of the juice bottle is 1 cup.

WEIGHT AND MASS

Mass is the amount of matter in an object. Your child will choose appropriate units and tools to estimate and measure mass in grams and kilograms.



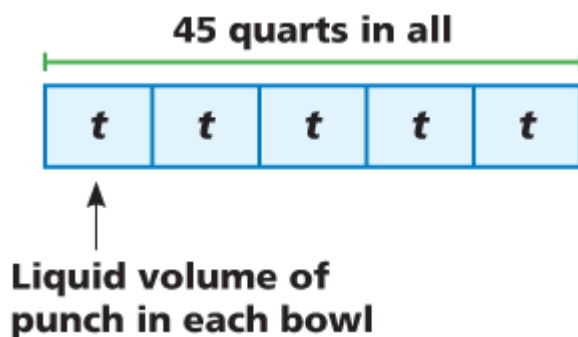
The apple has a mass of 262 grams.

MEASUREMENT IN WORD PROBLEMS

Your child will solve word problems involving measurement. These problems can be represented with bar diagrams and equations.

Here is an example:

Aisha divides 45 quarts of punch equally into 5 punch bowls for a party. How many quarts of punch does each punch bowl contain?



$$45 \div 5 = t; t = 9 \text{ quarts}$$

CONNECT THE MATH

You can connect the math in this topic to everyday experiences. Have your child point out hours on a clock and relate the hours to A.M. or P.M. Help your child record the daily high and low temperatures. Explore liquid volume with measuring cups and bowls. Finally, have your child estimate the mass or weight of an object and tell if it should be measured in kilograms, grams, pounds, or ounces.

TOPIC 13 LESSONS

- Lesson 13-1** [Tell Time to the Minute](#)
- Lesson 13-2** [Elapsed Time](#)
- Lesson 13-3** [Temperature](#)
- Lesson 13-4** [Liquid Volume: Customary Units](#)
- Lesson 13-5** [Weight: Customary Units](#)
- Lesson 13-6** [Solve Real-World Problems: Use Customary Units](#)
- Lesson 13-7** [Liquid Volume: Metric Units](#)
- Lesson 13-8** [Mass: Metric Units](#)

Lesson 13-9

Solve-Real World Problems: Use Metric Units

Lesson 13-10

MATH THINKING AND REASONING

Discuss Math Thinking with Others