

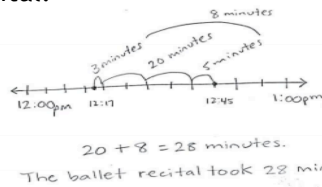
Place Value and Problem Solving with Units of Measure

This module will tie our place value learning to some real-world work with measurement using the metric system. Students will also work on telling time and solving problems relating to elapsed time.

Sample Problem from Module 2: (Example taken from Lesson 13, Module 2)

Here is a sample elapsed time problem that can be solved with a number line:

The school ballet recital begins at 12:17 p.m. and ends at 12:45 p.m. How many minutes long is the ballet recital?



Key Words to Know

Important Metric Words:

Gram (g)
Kilogram (kg)
Liter (L)
Milliliter (mL)
Centimeter (cm)
Meter (m)

Other math terms:

Analog clock: a clock that is not digital

Capacity: the amount that a container can hold
Compose: change 10 smaller units for 1 of the next unit on the place value chart
Interval: time passed, or a segment on the number line
Plot: locate and label a point on the number line

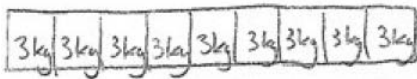
Point: a specific location on the number line

Round: estimate a number to the nearest 10 or 100 using place value

Sample Problem from Module 2: (Example taken from Lesson 8, Module 2)

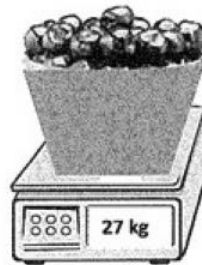
4. Jane and her 8 friends go apple picking. They share what they pick equally. The total weight of the apples they pick is shown to the right.

a. About how many kilograms of apples will Jane take home?



$$27 \text{ kg} \div 9 = 3 \text{ kg}$$

Jane will take about 3kg of apples home.



+ How you can help at home:

- Ask your student to help with all kinds of measurement around the house
- Continue to practice telling time, and begin to ask questions about elapsed time, e.g., “How many minutes have passed since we got home from school?”

Key Idaho Content Standards:

- **Use place value understanding and properties of operations to perform multi-digit arithmetic**
 - Round numbers to the nearest 10 or 100
 - Fluently add and subtract within 1000
- **Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects**
 - Tell and write time to the nearest minute and measure time intervals
 - Measure and estimate liquid volume and mass of objects