**BeCALM Part 1:**

**Number Sense**

Beginning Curriculum for Adults Learning Math Remote-Ready Curriculum for GLE 2–4

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AAAP8AAAD/AAAA/wAAAP8AAAD9AAAAWAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAsAAADVAAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAIEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACxAAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAACWAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABpAAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAB/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGgAAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAANEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACTAAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAOMAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAhQAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAADzAAAAOQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAsQAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAAlgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGAAAAOYAAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA+gAAAFgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABoAAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAADTAAAABwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEwAAANUAAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAArQAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACwAAAD1AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAANIAAAAWAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAwAAAIUAAADhAAAAPgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAALEAAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAJYAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACHAAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAADyAAAATwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAaAAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA0wAAAAcAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABGAAAA+gAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAABmAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAArAAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAAtQAAAAwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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D/AAAAQQAAAAAAAAAAAAAAAAAAAAAAAACpAAAA/wAAANkAAAAOAAAAAAAAAIMAAAD/AAAA9AAAADUAAAAZAAAA6gAAAPMAAAApAAAAAAAAAAAAAAAAAAAAAAAAAGAAAAD/AAAA0gAAAAoAAAAAAAAAdAAAAP8AAACgAAAAAAAAAAAAAAAAAAAAAAAAADIAAAD/AAAAlQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE4AAAD/AAAA5QAAAB4AAAAAAAAAAAAAAAAAAAAGAAAAhwAAAHAAAAAAAAAAAAAAAJ8AAAD/AAAAtgAAAAAAAAAAAAAAAAAAAAAAAAB2AAAA/wAAAP8AAABtAAAAAAAAAAAAAAAAAAAApAAAAP8AAACnAAAAAAAAAAAAAAABAAAAtwAAAP8AAAB9AAAAAAAAAAAAAAAAAAAAAAAAAAAAAABFAAAA/wAAAOcAAAATAAAAAAAAAAAAAAAwAAAA/wAAAPAAAAAbAAAAAAAAAAAAAAAAAAAAAAAAADMAAAD+AAAA9wAAACoAAAAAAAAAAAAAAEUAAAD/AAAA9AAAACQAAAAAAAAAAAAAAAAAAAAvAAAA8AAAAP8AAADEAAAACQAAABoAAADvAAAA/AAAADEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAJYAAAD/AAAAqQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAYAAAA5gAAAP8AAABVAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA8AAAA+wAAAPsAAAA0AAAAAAAAAAAAAABLAAAA/wAAANsAAAAPAAAAAAAAAAAAAAAAAAAAAAAAADoAAAD/AAAA9QAAACcAAAAAAAAAAAAAAAAAAAAAAAAAywAAAP8AAAB8AAAAAAAAAAAAAAAAAAAAAAAAAK8AAAD/AAAAggAAAAAAAAAAAAAABQAAAMkAAAD/AAAAkAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEwAAAOcAAAD/AAAAVQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAH4AAAD/AAAAyAAAAAMAAAAAAAAAAAAAAAAAAAAAAAAAmwAAAP8AAACwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACGAAAA/wAAAMAAAAAAAAAAAAAAAAAAAAAAAAAAbgAAAP8AAADIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAwAAAA+wAAAPsAAAAyAAAAAAAAAAAAAAAAAAAAAAAAACMAAADzAAAA/wAAAEEAAAAAAAAAAAAAAAAAAAAAAAAArAAAAP8AAACjAAAAAAAAAAAAAAAHAAAAQgAAADAAAAAAAAAAdwAAAP8AAAC5AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAUAAAA8QAAAP8AAAA/AAAAAAAAAHkAAAD/AAAAxgAAAAkAAAAAAAAAAAAAAAAAAAAdAAAAmgAAAFYAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAkAAAA8wAAAP8AAADSAAAAZQAAADIAAAAOAAAAAAAAAAAAAAAAAAAAAAAAAAkAAADWAAAA/wAAAIoAAAAAAAAAAAAAAAAAAAAAAAAABgAAAE4AAABIAAAAAwAAAAAAAAAAAAAAAAAAAKQAAAD/AAAApwAAAAAAAAAAAAAAFwAAAOcAAAD/AAAAlgAAAEcAAABHAAAARwAAAEcAAABHAAAAdQAAAP8AAAD9AAAAMwAAAAAAAAAAAAAAMAAAAP8AAADuAAAAHQAAAAAAAAAAAAAAAAAAAAAAAAAhAAAA+wAAAPcAAAAqAAAAAAAAAAAAAACEAAAA/wAAANkAAAAJAAAAAAAAAAAAAAAAAAAAAAAAADMAAABZAAAAGgAAAAAAAABRAAAA/wAAAPYAAABiAAAARwAAAEcAAABHAAAARwAAAEcAAACjAAAA/wAAANEAAAAFAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGAAAAOYAAAD/AAAAVgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGQAAAO0AAAD/AAAAYgAAAAAAAAAAAAAASwAAAP8AAADbAAAADwAAAAAAAAAAAAAAAAAAAAAAAAA6AAAA/wAAAPUAAAAnAAAAAAAAAAAAAAAAAAAAAAAAAMsAAAD/AAAAfAAAAAAAAAAAAAAAAAAAAAAAAACvAAAA/wAAAIIAAAAAAAAAAAAAABkAAADrAAAA/wAAAGUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABUAAADnAAAA/wAAAFUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB+AAAA/wAAAMgAAAADAAAAAAAAAAAAAAAAAAAAAAAAAJsAAAD/AAAAsAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAhgAAAP8AAADAAAAAAAAAAAAAAAAAAAAAAAAAAG4AAAD/AAAAyAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMAAAAPsAAAD7AAAAMgAAAAAAAAAAAAAAAAAAAAAAAAAjAAAA8wAAAP8AAABBAAAAAAAAAAAAAAAAAAAAAAAAAKwAAAD/AAAAogAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAALkAAAD/AAAAvQAAAEYAAABHAAAARwAAAEcAAABHAAAAUAAAAO8AAAD/AAAAaAAAAAAAAABJAAAA/wAAAP8AAAC5AAAAVQAAACoAAAAJAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHcAAAD7AAAA/wAAAP8AAAD8AAAA4AAAAKAAAAA3AAAAAAAAAAAAAAAWAAAA4wAAAP8AAACJAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACkAAAA/wAAAKcAAAAAAAAAAAAAACMAAADyAAAA/wAAAPUAAADrAAAA7AAAAOwAAADsAAAA7AAAAOsAAADlAAAA4QAAADIAAAAAAAAAAAAAADAAAAD/AAAA7gAAAB0AAAAAAAAAAAAAAAAAAAAAAAAAIQAAAPsAAAD3AAAAKgAAAAAAAAAAAAAAngAAAP8AAADUAAAACQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAaAAAAP8AAAD+AAAA7wAAAOwAAADsAAAA7AAAAOwAAADsAAAA6QAAAOYAAADFAAAADgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABgAAADmAAAA/wAAAFYAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAsAAADmAAAA/wAAAHMAAAAAAAAAAAAAAEsAAAD/AAAA2wAAAA8AAAAAAAAAAAAAAAAAAAAAAAAAOgAAAP8AAAD1AAAAJwAAAAAAAAAAAAAAAAAAAAAAAADLAAAA/wAAAHwAAAAAAAAAAAAAAAAAAAAAAAAArwAAAP8AAACCAAAAAAAAAAAAAAAlAAAA+wAAAP8AAABkAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAVAAAA5wAAAP8AAABVAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAfgAAAP8AAADIAAAAAwAAAAAAAAAAAAAAAAAAAAAAAACbAAAA/wAAALAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIYAAAD/AAAAwAAAAAAAAAAAAAAAAAAAAAAAAABuAAAA/wAAAMgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADAAAAD7AAAA+wAAADIAAAAAAAAAAAAAAAAAAAAAAAAAIwAAAPMAAAD/AAAAQQAAAAAAAAAAAAAAAAAAAAAAAACsAAAA/wAAAKIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADSAAAA/wAAAPgAAADsAAAA7AAAAOwAAADsAAAA7AAAAOwAAADmAAAA5gAAAGAAAAAAAAAABQAAAJwAAAD/AAAA/wAAAP8AAAD1AAAA2AAAAJAAAAAoAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AZAAAAAAAAAAAAAAAAAAAAAAAAAB0AAAD7AAAA9wAAACYAAAAAAAAAAAAAAA4AAADWAAAA/wAAAMgAAAAWAAAAAAAAAAAAAAAAAAAAAAAAAFYAAAD2AAAAMQAAAAAAAACqAAAA/wAAAOQAAAAtAAAAAAAAAAAAAAAAAAAAAAAAACgAAADkAAAAeQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAYAAAA5QAAAP8AAACgAAAAAAAAAAAAAAAAAAAAAAAAAAIAAACoAAAA/wAAAMkAAAAHAAAAAAAAAAAAAAAxAAAA/AAAAP4AAABUAAAAAAAAAAAAAAAAAAAAAAAAAHoAAAD/AAAA9AAAAB4AAAAAAAAAAAAAAAAAAAAAAAAAygAAAP8AAAB6AAAAAAAAAAAAAAAAAAAAAAAAAK4AAAD/AAAAgAAAAAAAAAAAAAAAAAAAAHUAAAD/AAAA5wAAACMAAAAAAAAAAAAAAAAAAAAAAAAATQAAAPoAAAD/AAAATQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHwAAAD/AAAAxwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAcgAAAP8AAADpAAAAGgAAAAAAAAAAAAAAAAAAAAMAAAC8AAAA/wAAAL0AAAAAAAAAAAAAAAAAAAAAAAAAbwAAAP8AAADHAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAVAAAA6gAAAP8AAAB3AAAAAAAAAAAAAAAAAAAAAAAAAFcAAAD9AAAA/wAAADgAAAAAAAAAAAAAAAAAAAAAAAAAqwAAAP8AAACgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAKwAAAPUAAAD/AAAAmAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAeQAAAO0AAAAcAAAAAAAAAJUAAAD/AAAAQQAAAAAAAAAAAAAAAAAAAAAAAAA8AAAA/wAAANoAAAAJAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABqAAAA/wAAAOEAAABFAAAAEQAAAAsAAAAkAAAAmQAAAP8AAACnAAAAAwAAAAAAAAACAAAAkwAAAP8AAAD/AAAArwAAAF0AAABFAAAAaQAAAMkAAAD7AAAARgAAAAAAAAAQAAAAJQAAALEAAAD/AAAAtAAAACQAAAARAAAAAAAAAAcAAACoAAAA/wAAAP4AAACfAAAAVAAAAEYAAABtAAAAzQAAAPUAAAA+AAAAAAAAAAUAAAAiAAAATQAAAP8AAADyAAAAPQAAABwAAAABAAAAAQAAAB4AAABAAAAA/QAAAPoAAABIAAAAIAAAAAQAAAAAAAAASAAAAPQAAAD/AAAA1QAAAHMAAABGAAAAVgAAAJ0AAAD/AAAAlgAAAAEAAAAAAAAAJQAAAN8AAAD/AAAA6AAAAIMAAABLAAAATgAAAIcAAADsAAAA0QAAABMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGAAAAOkAAADwAAAAwgAAAKQAAAA8AAAAIgAAADsAAAClAAAA/wAAAPYAAABGAAAAAAAAAAAAAAAAAAAACAAAAMcAAAD/AAAA5AAAAFcAAAAlAAAALQAAAIQAAADTAAAA+QAAAPwAAACTAAAATQAAAAIAAAAWAAAAJAAAANMAAAD/AAAAjwAAACMAAAAKAAAAEQAAACQAAAC7AAAA/wAAAJQAAAAkAAAADwAAAAAAAAARAAAAywAAAP8AAADVAAAAVgAAACQAAAAqAAAAdwAAANgAAAD1AAAA/wAAAK8AAABgAAAADwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADAAAACMAAACRAAAA/wAAANEAAAAmAAAAIgAAAAYAAAAAAAAAAAAAACYAAAD0AAAA/wAAAL0AAABCAAAAIgAAADoAAACmAAAA3wAAAP8AAADlAAAAdgAAADIAAAAAAAAAAAAAAGkAAAD/AAAA0wAAAC8AAAAwAAAAMQAAAAoAAAAAAAAAAQAAAKQAAAD/AAAA8AAAAGsAAAAmAAAAJwAAAHEAAADNAAAA8wAAAP8AAACkAAAAWQAAAAgAAAARAAAAJAAAALgAAAD/AAAAsAAAACMAAAAfAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAB1AAAA/wAAAP8AAAC7AAAAYgAAAEQAAABhAAAAsgAAAP8AAABxAAAAAAAAAAAAAACQAAAA/wAAAMkAAAAyAAAADAAAAA8AAAAuAAAAuQAAAP8AAAB4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAZwAAAPsAAACfAAAA2AAAAOQAAADhAAAA+wAAAP4AAACoAAAAEwAAAAAAAAAAAAAAAAAAAAUAAAB9AAAA5wAAAP8AAAD/AAAA/wAAAP8AAADaAAAATAAAAAAAAAAAAAAAbQAAAO4AAAD1AAAA+gAAAPUAAADtAAAAcwAAAAAAAAAAAAAACgAAAI4AAADuAAAA/wAAAP8AAAD/AAAA/wAAANMAAABAAAAAAAAAAAAAAAAfAAAA5gAAAO8AAAD6AAAA+QAAAO4AAADAAAAABgAAAAoAAADLAAAA7gAAAPkAAAD5AAAA7gAAANsAAAAaAAAAAAAAAAAAAABGAAAAzAAAAP8AAAD/AAAA/wAAAP8AAAD2AAAAigAAAAcAAAAAAAAAAAAAAAAAAAAqAAAAtgAAAP0AAAD/AAAA/wAAAP8AAAD/AAAArAAAAB4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABgAAADlAAAAdQAAABQAAAC8AAAA/gAAAPwAAAD/AAAA/wAAAN0AAABSAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAwAAAA1QAAAP8AAAD/AAAA/wAAAPoAAADAAAAASAAAAP4AAAD5AAAA7QAAAKwAAAAFAAAAkwAAAO0AAAD3AAAA+gAAAPIAAADsAAAARgAAAHEAAADuAAAA9QAAAPoAAADzAAAA7QAAAGcAAAAAAAAAAAAAACIAAAC4AAAA/wAAAP8AAAD+AAAA/wAAAOAAAABYAAAA6QAAAPwAAADzAAAAzAAAACIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE8AAADsAAAA8wAAAPoAAAD3AAAA7AAAAOQAAAAoAAAAAAAAAAAAAAAAAAAAZQAAAOsAAAD/AAAA/wAAAPwAAAD3AAAAjgAAAHgAAAD/AAAA9wAAAOYAAAB0AAAAAAAAAAAAAAApAAAA5AAAAP8AAAD/AAAA/QAAAOMAAAAnAAAAAAAAAAAAAAAgAAAAwwAAAP8AAAD/AAAA/wAAAPkAAADSAAAARwAAAOwAAAD8AAAA8gAAAMEAAAAPAAAAdAAAAO0AAAD1AAAA+gAAAPUAAADsAAAA0gAAAAkAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGkAAADdAAAA/wAAAP8AAAD/AAAA/wAAAOkAAABpAAAAAAAAAAAAAAAAAAAAjQAAAPoAAACfAAAA4wAAAOIAAADmAAAA/wAAAPQAAACLAAAABwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABYAAAA4AAAACwAAABcAAABdAAAAeQAAAGYAAAAyAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABoAAABSAAAAcAAAAG8AAABIAAAADQAAAAAAAAAAAAAAAAAAABoAAAA5AAAANgAAADYAAAA2AAAAOQAAABsAAAAAAAAAAAAAAAAAAAAAAAAAIQAAAFYAAAByAAAAbAAAAEMAAAAIAAAAAAAAAAAAAAAAAAAABwAAADYAAAA4AAAANgAAADYAAAA4AAAALQAAAAEAAAADAAAAMAAAADgAAAA2AAAANgAAADgAAAA0AAAABgAAAAAAAAAAAAAAAAAAAAgAAABBAAAAaAAAAHQAAABaAAAAIwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA2AAAAYwAAAHUAAABjAAAAMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFAAAALgAAAAYAAAAAAAAAAwAAAEAAAABsAAAAcgAAAFIAAAAUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABEAAABLAAAAbwAAAHEAAABDAAAAAgAAAAwAAABYAAAAMwAAABEAAAADAAAAAA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**TEACHER’S GUIDE**

Created with funding from the Adult and Community Learning Services division of the Massachusetts Department of Elementary and Secondary Education by the SABES Mathematics and Adult Numeracy Curriculum & Instruction PD Center, which is managed by TERC, Inc.



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**Acknowledgement**

The titles in the BeCALM series were developed by Melissa Braaten for the SABES Mathematics and Adult Numeracy Curriculum & Instruction PD Center, with contributions from Sherry Soares.

Excerpts and adaptations from the EMPower series title Everyday Number Sense: Mental Math and Visual Models © TERC. Used with permission.

# Learner Level

The math content is aimed at ABE level math students (approximately GLE 2–4). While adult students at this math level may have any level of reading, the student materials were designed to be used by adults with a reading level GLE 2 or above. To keep things accessible, the text in the Student Packet is kept to a minimum so that this can be used with students at an ABE reading level or students who are beginning to intermediate English Language Learners.

# Suggestions for Use

The Student Packet was designed to be used by students while they attend remote, synchronous classes but could also be used for face-to-face or hybrid instruction. Most of the activities in each unit work best when done synchronously but the routines, once established, could be assigned for homework.

Students at the suggested level (GLE 2–4) are often *building* the skills covered in this unit, not simply reviewing them. The pilot-testing of these materials took 8–10 hours of synchronous class time for each unit. This time included all of the synchronous elements listed below.

# Components of Synchronous Instruction

## Routines

Classroom routines can be powerful tools in the math classroom. Routines provide a familiar structure to an activity that helps students feel safe because the directions and expectations are predictable. However, a good math routine still provides a cognitive challenge and requires some type of problem-solving every time. There are several routines included in this unit that reappear at the end of every unit. There are notes and descriptions of how to facilitate these routines in the unit details. Other common routines, such as Number of the Day or Math Talks, also work well in synchronous instruction with students at this level, even though they do not appear in the student materials.

## Introduction of New Concepts

Each unit includes one or two activities to introduce the new concepts for that unit. Instructions for facilitating are included in the unit details. The goal is to lay the foundation for conceptual understanding of the concepts, rather than simply explaining procedures.

## Vocabulary and Things to Watch For

Each unit includes some suggestions on valuable vocabulary words and common misconceptions or interesting student ideas that came up in the pilot class.

## Relevance

Relevance is a major part of adult educational principles, and beginning math learners are no exception. There are different ways that we can make good, conceptual math content relevant to adult learners:

* We can help them learn new strategies for mathematical tasks they already perform, such as estimation.
* We can affirm mathematical ideas that they have to help them revise beliefs about themselves as math learners.
* We can teach them skills that will increase their independence and their ability to navigate real-life and academic situations involving math, both immediately and in the future.
* We can make connections to historically and culturally relevant topics.
* We can give them space to reflect on their identity as a mathematical learner.
* We can help them reflect on the role that mathematical thinking and learning plays in our society, especially when it comes to matters of justice and equity.

Each unit of this packet provides a reading or discussion prompt aimed at one or more of the goals above.

## Student Interaction and Interpersonal Skills

When possible, it is helpful to allow students to interact and work together without the teacher constantly present. In a remote setting, this can often be done using breakout rooms in video conferencing software. As long as the students all have the student materials available to them, they can work together on some of the activities or routines, but remote group work usually requires more scaffolding than in a face-to-face class. It can help to explicitly discuss expectations, etiquette and goals before breaking into groups, and to debrief afterwards to troubleshoot any problems with the process. Since remote interactions usually offer less in terms of non-verbal communication, students will need to learn ways to be more explicit and verbal in their communication with their classmates.

## Tech Support

Synchronous technology instruction and support is often necessary for students to be successful in a remote environment. This includes instruction on how to navigate and use the features of video conferencing software (like Zoom or Google Meet), and how to use any features of any other apps or software used for school communication, assignments, or other asynchronous instruction. Most students will benefit from at least some synchronous instruction with demonstrations when they start a class, with frequent review and support as needed. Students who struggle with technology usually do better with synchronous help rather than videos or documents, so incorporate this into your class time if they are not getting this help somewhere else.

# Materials Overview

* Unit 1: Estimation and Adding
* Unit 2: Rounding
* Unit 3: Combining
* Unit 4: Gauges
* Unit 5: Equations

Each unit in the student packet includes materials for:

* Relevance
* Activities and Practice
* Routines
* Self-Evaluation

# Math Background: Number Sense

***NOTE:*** *Much of the content contained in the Teacher’s Guides and Student Packets for the Number Sense Curriculum Parts 1&2 was reproduced and adapted from the EMPower Plus: Everyday Number Sense Teacher and Student books, with permission from the author (the* [*Adult Numeracy Center at TERC*](https://terc.edu/adultnumeracycenter)*).*

[*EMPower*](https://terc.edu/empower) strives to make the most of strategies adults bring to the table and makes explicit the understandings adults hold about numbers so that new ideas can be built on this foundation. Highly numerate adults use flexible, accurate, and efficient strategies for manipulating numbers and quantities in real-world problem-solving.

## The importance of students bringing their understanding into the classroom

Many students have invented or collected a set of strategies that circumvent the procedures (the methods or algorithms) historically taught in school, yet may think those are not the school-approved or “real” ways. Observations of adults at work and in consumer situations uncover a surprising assortment of methods. It is important that students be encouraged to bring their own good math sense to bear in various situations for managing the mathematical demands of school and everyday life. Strategies and methods may include a mix of finger counting, mental math, estimation, calculator use, and paper-and-pencil methods. Such strategies can support insight into higher mathematics.

## The importance of estimation

When a group of adults was asked to keep track of how they used math in a 24-hour period, most of the math (85%) they did was in their heads or by arriving at good estimations (Ginsburg, Manly, & Schmitt, 2006; Northcote & McIntosh, 1999). The researchers also found that estimates were sufficient for approximately 60% of all calculations, and exact answers necessary only 40% of the time.

In this unit, estimation is treated as a first step in problem-solving. Precision or accuracy can be as easily achieved by rounding and adjusting as it can by calculations on paper. Furthermore, students recognize that estimating or rounding (and adjusting) can help them determine a solution that is accurate enough for many circumstances. Estimations are particularly useful for gauging the accuracy of calculator-generated solutions, and it is vital for students to know how and when to use a calculator. A numerate person has all of these strategies at their disposal.

## The importance of visual models

To ably communicate mathematically and to flexibly approach problems, adults need visualization and expressive skills. They need to “see” the problem, and they need to know how to express the problem and their solution processes not only in words and with notation, but with visual representations as well.

A recurring question for students here is “How do you know?” To answer this question and to make the workings of mathematics visible, we count on visual representations, such as number lines, diagrams, words, and equations.

# Opening Activities

## Estimation and Number Sense

Have students read and brainstorm some examples of their own.

## “Street Math” and “School Math”

This short article shares some research affirming the value of “street math,” the type of flexible thinking exhibited when people use math in their real life. Estimation and number sense, the focus of this curriculum, are an important part of this “useful” math. This article and the discussion questions are meant to both affirm the math that students are already using in their lives and to set up the expectation that this type of flexible math is what they will be developing in this curriculum: not necessarily the type of rule driven math they may have previously encountered in school.

**Unit 1: Estimation and Adding**

|  |  |
| --- | --- |
| Learning Objectives | CCRSAE |
| I can estimate the total when adding several amounts. | 2.NBT.6-9, 3.OA.8, MP.5 |
| I can explain my strategy for estimating to others. | MP.3 |
| I can give a reason why one choice doesn’t belong with the group. | MP.3 |
| I can keep working on a challenging problem even if I don’t understand it right away. | MP.1 |
| I can fill in missing numbers on a number line. | 2.MD.6, also with intervals of lengths greater than 1\* |

***Note:*** *The last three learning objectives refer to the routines and are repeated in each part.*

\*The CCRSAE does not have many specific standards about learning to use a number line diagram, although they are mentioned throughout the levels as a visual aid to reasoning about other standards. Number lines also appear in different domains (for example, 3.NF.2-3 address number line use with fractions). Gaining fluency with their use at an early level will help students both to develop number sense and to be prepared when they encounter them in measurement, data, etc.

***NOTE:*** *EMPower materials featured in Unit 1 can be found in Lesson 1 (Close Enough with Mental Math) of the Everyday Number Sense: Mental Math and Visual Models books.*

# Math Background

Estimation skills are among the most important skills in arithmetic. The commutative and associative properties support mental math and estimation as they allow problem-solvers to change the order for addition and multiplication problems and to re-group quantities, for example, grouping numbers that add to 10 or other friendly numbers. Knowing when an answer is in the ballpark involves having a good idea of what the numbers are individually, combined, separated, or grouped. So, for example, seeing 29 as 1 less than 30 or 4 more than 25 is important for different reasons and different problems (e.g., 29 + 17 ≈ 30 + 20; 29 + 74 ≈ 25 + 75). *Note: the symbol ≈ means about or approximately equal to.* By practicing estimation, students will gain flexibility in their thinking and problem solving, both of which are aspects critical to attaining fluency with computation.

# Relevance

The unit opens with a short article from *The Change Agent\** about how a student uses estimation in her life. The article could be read in or out of class, but it is a good opportunity for students to share their own ideas about how they use estimation in their lives.

*\*Massachusetts teachers are eligible for a free subscription to The Change Agent. Email* [*changeagent@worlded.org*](mailto:changeagent@worlded.org) *for details.*

# Activities and Practice

***Note:*** *The following activities “About How Much?” and “Agree or Disagree?” were excerpted from Lesson 1: Close Enough with Mental Math in the EMPower Plus: Everyday Number Sense Teacher Book.*

## Saving Money on Coffee

Have students read and discuss the questions as a class or in groups.

## About How Much?

Explain that for each of the problems you will show, students will select the closest answer from among three choices. You may choose to share only one of the problems at a time on a slide, or you can have them look at all three at once. Emphasize that students need not find the exact answer, but only to see which one is closest, using mental math if possible. Allow students to post responses in the chat box, then ask for volunteers to explain how they found the closest answer. Record students’ strategies.

**Examples of possible strategies:**

* Round up each number: $1.95 is close to $2, and $3.95 is close to $4, so $2 + $4 is $6.
* Add the dollars ($1 + $3 is $4), then round the cents each up to $1, and add another $2.

Repeat the process for the rest of the problems. End the activity by saying: *How do the estimates you made in these problems relate to estimates you make in your daily life?* Ask for specific examples.

This activity can be repeated in future classes with similar teacher-generated problems.

## Agree or Disagree?

This is the first of many opportunities for students to begin to think critically about algorithms, or procedures. Students have a chance to think about their own procedures and then judge the reasoning of others.

One way to facilitate this is to put each of the friend’s explanations on a separate slide, and have students share in the chat, with a few volunteers out loud. Students could also work on this in small groups in breakout rooms, if that has been established. In the examples, Lianne, Peter, and Ana are demonstrating the commutative property of addition, which states that the sum is always the same regardless of the order of the addends. Chen’s method relies on the associative property of addition, since he is grouping the addends while adding—a method that will also result in the same sum. Students explore the commutative and associative properties of addition. They see that order doesn’t matter in addition and that numbers can be grouped in various ways.

As a class, have them share their responses to the question, “What is the best advice about the order in which numbers can be added?” Listen to and record several suggestions in students’ exact words on the board, then seek a class consensus on the clearest way to say that the order in addition does not matter. You might hear and record ideas such as:

* It is OK to order the numbers from smallest to largest, but this isn’t a procedure that must be followed.
* When you have a list of numbers to add, you can take them two at a time.
* When you add, the order doesn’t matter. You get the same answer either way.
* a + b = b + a

# Vocabulary and Things to Watch For

## Vocabulary

**estimate, about, approximate, tick mark, interval**

## Finding exact answer first

Many students feel they must find an exact answer first, then they “round off” that answer to get an estimate. They don’t feel comfortable using rounded or estimated numbers in their calculations. They should be gently encouraged to do so, using modified numbers at first if that makes it more accessible.

## Mixing up tick marks and intervals

Diagram, schematic

Description automatically generatedThe Number Line Puzzle routine introduces students to number lines. Students are often more comfortable with discrete (countable) quantities, rather than the way quantity is represented with distance, as on a number line. Seeing the tick marks as representing number locations, and the intervals as difference between those locations can be confusing. Teaching them the vocabulary for tick mark and interval can help. Student errors (real or teacher generated) where the intervals are labeled rather than the tick marks can be used to generate discussion about the difference.

# Teacher Notes for Routines

## Facilitating Which One Doesn’t Belong?

This first *Which One Doesn’t Belong?* uses objects rather than numbers to help students understand how the activity works. In subsequent units, this routine becomes more numerical.

Students are asked to choose one item that they think doesn’t belong with the rest. In order to do this, they have to think about various types of attributes that the objects may have in common (or not). Ideally, they find an attribute shared by three of the objects, but not by the fourth. When students are new to this activity, they may instead only be able to break the four objects into two groups.

There is no one correct answer to these activities. The point is to make an argument for the one you have chosen. In most cases, a valid argument could be made for any one of the four objects (or numbers). It can take some time for students to understand that there isn’t a right answer, but many different answers that could be correct, as long as they correctly identify an attribute that makes one different from the others.

When facilitating remotely, make sure students have time to think before sharing starts, and allow as many students to share as possible (the chat box works well for this).

## Which One Doesn’t Belong 1: Some possible responses (not exhaustive!)

* The raisins don’t belong because they are the only fruit that is dried (or in a box, or that doesn’t grow on a tree, or that isn’t yellow).
* The apple doesn’t belong because it is the only fruit with a core (or with red on it).
* The lemon doesn’t belong because it is the only fruit you don’t usually eat on its own (or the only citrus fruit).
* The banana doesn’t belong because it is the only fruit that doesn’t roll (a grape would roll before it was dried).

## Facilitating the Open Middle problem: Adding Two-Digit Numbers

Students often need guidance when first introduced to this type of problem. First of all, the vocabulary digits and sum might not be familiar. It may also be helpful to do this first problem several times, starting without the restriction on digits. Have students offer examples that you post to the class, then challenge them to see if they can find a sum higher (or lower) than the best so far. The first few times you do this type of activity, it is helpful to do it once in class (for example, to find the largest sum), then it can be assigned again for homework (but this time, they find the smallest sum).

These problems require perseverance, problem solving, an understanding of base ten, and operation sense. They also provide calculation practice at the same time.

## Adding Two-Digit Numbers

The largest sum that can be made with the digit restrictions is 97 + 86 =183 (or 96 + 87 = 183). The smallest sum that can be made is 13 + 24 = 37 (or 14 + 23 = 37). For all possible addends, the ones places can be swapped to create an equal sum.

Example: 13 + 24 = 10 + 3 + 20 + 4 = 10 + 4 + 20 + 3 = 14 + 23

## Introduction to Number Lines

The packet has a page to introduce the vocabulary tick mark and interval. In this unit, students will be working only with proportional number lines, which means that intervals of the same size have the same value. There are number line puzzles included at the end of each unit, since number lines play a large role in this unit and repeated exposure can help students gain familiarity with how they work. In the puzzles, students must figure out what number goes in the blank to make sure that all of the intervals have equal value. At the end of each number line puzzle page, students create their own number line. This is a valuable form of informal assessment. The number line puzzles increase in complexity with each and use numbers related to the content of the unit, if appropriate.

## Number Line Puzzles 1a:

**A:** 9, intervals worth 3

**B:** 5, intervals worth 5

**C:** 50, 100, intervals worth 25

## Number Line Puzzles 1b:

**A:** 8, intervals worth 4

**B:** 40, intervals worth 20

**C:** 350, 400, intervals worth 25

**Unit 2: Rounding**

|  |  |
| --- | --- |
| Learning Objectives | CCRSAE |
| I can round to the nearest dollar or the nearest ten dollars. | 3.NBT.1 |
| I can give a reason why one choice doesn’t belong with the group. | MP.3 |
| I can keep working on a challenging problem even if I don’t understand it right away. | MP.1 |
| I can fill in missing numbers on a number line. | 2.MD.6, also with intervals of lengths greater than 1 |

***NOTE:*** *EMPower materials featured in Unit 2 can be found in Lesson 1 (Close Enough with Mental Math) of the Everyday Number Sense: Mental Math and Visual Models books.*

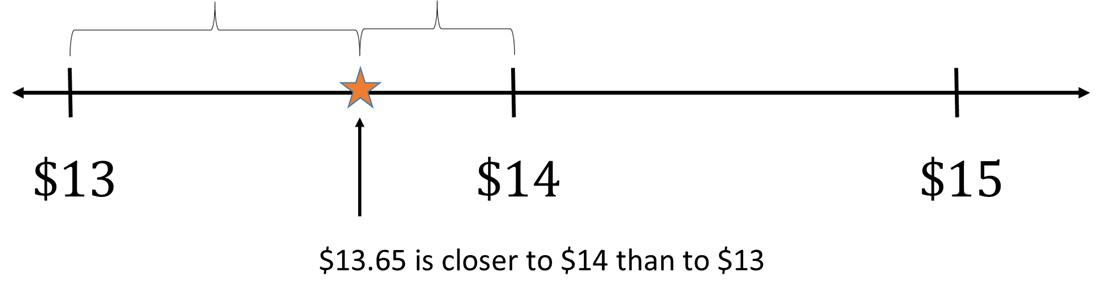
# Math Background

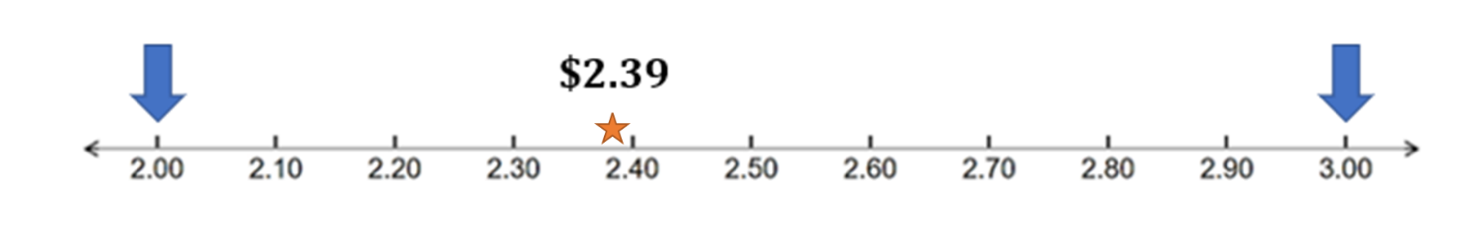
## Rounding

The typical rule for rounding taught in school (look at place value to the right, and if the number is five or higher, round up) is often considered an elementary math skill, but it requires an understanding of place value and how different numbers are related to one another. As we will see below, in real life there are many acceptable ways to ‘round’ depending on the purpose and the estimate needed. We will start with a look at the traditional way of rounding since it involves an understanding of place value, which is an important concept for students to understand. A number line can be a powerful visual tool to help develop this conceptual understanding.

For example, what if we are told: *Round $13.65 to the nearest dollar.*

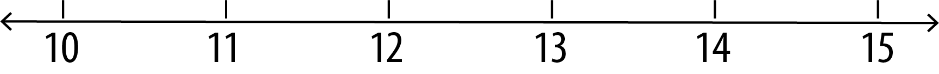
We can imagine a number line with each interval of $1 acting as a benchmark (nearest dollar). Then we look at which benchmark is closest to our number.



There are two concepts needed for students to complete this task. First, they need to be able to identify which benchmarks lie on either side of the number ($2.39 is between $2 and $3). Then, they need to be able to visualize or calculate where the number lies between the two benchmarks to determine which is closer. This unit uses a zoomed in number line to help students see where the number lies between the benchmarks.

If students are struggling to identify the benchmarks, a zoomed-out number line could be used first.

**13.78 is between which two numbers?**



While this is explicitly teaching rounding to the nearest dollar and nearest $10, many adults have a variety of sound ways of rounding in their everyday lives that do not always rely on place values as the ‘benchmarks’. For example, let's say a person is buying three grocery items that cost $2.23, $6.65, and $10.99. They might round each to the nearest dollar in their head. Or they might decide to round the first two amounts ($2.23 and $6.65) to $2.25 and $6.75, which will simplify addition by making a dollar out of the change. They may also simply decide to round every amount up, no matter what, to make sure they doesn’t go over budget.

# Relevance

This unit opens with a short anecdote about how an adult student uses rounding to manage her money at the grocery store.

# Activities and Practice

## Rounding at the Grocery Store

Have students read and discuss the article as a class or in groups.

This is a good example of how we don’t have to follow the “rules” for rounding when we are using it as a tool for estimation in the real world. The author explains how she always chooses to round up, so as to avoid going over her budget.

## Is It Closer to…? and Rounding to the Nearest Dollar

Number lines are used as a visual to help students see where the number is relative to the appropriate benchmarks (nearest dollar or ten dollars). Number lines may be new or unfamiliar to students at this level, so spend time making sure they understand how the intervals work and how to place the number in the correct spot. Blank number lines are included on the last page of the packet for students to create their own number lines, as needed. All have ten intervals, so they work well for number lines based on place value.

Start this activity by asking students which of the benchmarks (marked with arrows) the amount is closer to. After they have done the examples, this mathematical activity is named as “rounding to the nearest dollar.”

## Is it Closer to…? Part 2 and Rounding to the Nearest Ten

Repeat the same method with these number lines, where the benchmarks are ten apart.

# Vocabulary and Things to Watch For

## Finding the benchmarks

As this scaffolding is removed (either by having students create their own number lines, or when they move on to rounding without number lines), some students will struggle with identifying the appropriate rounding benchmarks. For example, when rounding the number $13.67 to the nearest dollar, some students may struggle with identifying that $13.67 is *in between* $13 and $14. If students need more practice with this, it may be helpful to practice with a zoomed-out number line with whole number intervals, and have students identify in which interval the number would fall.

## Nearest dollar versus nearest ten

Some students may be confused when asked to round a larger number, such as $89.04, to the nearest dollar, instead automatically switching to the nearest ten (rounding to $90). This is a reasonable instinct, as we tend to round larger numbers off to larger place values in everyday life. It is important to validate the instinct and reasonableness of rounding in this way, since there are no rules beyond reasonableness in everyday life. To then refocus on the idea that we can round larger numbers to the nearest dollar, you can rephrase the question: Is $89.04 closer to $89 or $90? Draw their attention to the fact that the choices you gave them are one dollar apart. Other times we might be looking at choices that are ten dollars apart.

The introductory rounding pages are structured to start by asking “Is it closer?” questions and later labeling this activity as “Rounding to the Nearest Dollar” or “Rounding to the Nearest Ten.”

## Rounding to other benchmarks, like $0.50

Imagine a student says, “I wouldn’t round $6.55 to $7. I would round it to $6.50.” This is not actually a misconception but a great use of number sense! Validate the usefulness of other benchmarks for rounding. You can distinguish between the ways a person could choose toround (whatever way makes sense) versus a specific request to round to the nearest dollar. For example, you could first say that you agree the strategy that the student chose would be a useful way to round the number. Then, ask the student how she would answer the question, *Is it closer to $6 or $7?* Try to draw a distinction between estimating and rounding. Estimating does not have rules beyond reasonableness and usefulness. Rounding involves specific mathematical questions.

# Teacher Notes for Routines

## Which One Doesn’t Belong? 2: Some possible responses

***Note:*** *Students may not have the precise geometry vocabulary to explain their reasoning. Describing the attributes in their own words is fine and you can provide the term that matches their description if it seems beneficial. The focus here is on noticing and categorizing attributes, not on teaching the geometry concepts/vocabulary.*

* The square doesn’t belong because it is the only shape with four sides (or with four right angles, or that has four lines of symmetry).
* The oval doesn’t belong because it is the only shape with no straight sides (or with no angles, or with exactly two lines of symmetry)
* The equilateral triangle doesn’t belong because it is the only shape with all acute angles (or with exactly three lines of symmetry).
* The right triangle doesn’t belong because it is the only shape that is blue (or that has exactly one right angle, or that is not symmetrical (mirror or rotational).

## Missing Digits

In this Open Middle activity, students explore how the size of the minuend and the subtrahend affect the difference. This setup in particular encourages students to see the difference as the distance between the two numbers, which could be visualized on a number line.

Closer to 200 than 300: Any difference 249 or below will work.

Note: If students are overwhelmed with the three-digit numbers, you can modify the activity to be 4 – 1. You can also rerun the activity and have the students try to find the largest or smallest difference.

Smallest difference: The smallest difference between the two numbers will be when the first is as low as possible and the second is as high as possible, in this case, 400 – 199 = 201

Largest difference: The largest difference will be when the first is as high as possible and the second is as low as possible, in this case, 499 – 100 = 399

## Number Line Puzzles 2

**A:** $1.08, intervals of $0.02

**B:** $2.30, intervals of $0.10

**C:** $1.50, $2.50, $4.00, intervals of $0.50

**Unit 3: Combining**

|  |  |
| --- | --- |
| Learning Objectives | CCRSAE |
| I can find pairs of numbers that add together easily. | 1.OA.6, 2.NBT.6-9, 3.OA.8 |
| I can estimate the total when adding several amounts. | 2.NBT.6-9 |
| I can explain my strategy for estimating to others. | MP.3 |
| I can give a reason why one choice doesn’t belong with the group. | MP.3 |
| I can keep working on a challenging problem even if I don’t understand it right away. | MP.1 |
| I can fill in missing numbers on a number line. | 2.MD.6, also with intervals of lengths greater than 1 |

***NOTE:*** *EMPower materials featured in Unit 3 can be found in Lesson 1 (Close Enough with Mental Math) of the Everyday Number Sense: Mental Math and Visual Models books.*

# Math Background

Another common strategy for estimation or mental math with addition is to find combinations of ‘friendly’ numbers. In these examples, students look for combinations that make $1 or $10. This relies on students understanding that they can rearrange and group addends in any order (Commutative and Associative Properties of Addition). Finding friendly combinations can make calculations more efficient *and* more accurate.

# Relevance

This unit starts with a short article from *The Change Agent* where an adult education student talks about both her experience with her own mother when she was trying to learn math and her experience trying to help her children with math. The reflection questions ask students to think about this part of their own math story. The questions may be very personal for some students. In the pilot of this unit, students were very receptive to the article and willingly shared stories about how they felt as parents trying to help their kids with math, and reflected on the role that their current studies played in how they saw themselves as a math learner and a parent.

# Activities and Practice

## Help Me, Mom!

Have students read the article and discuss, either as a class or in groups.

## Closest Answer

This is a review activity, similar to *About How Much?* in Unit 1. Explain that for each of the problems you will show, students will select the closest answer from among three choices. You may choose to share only one of the problems at a time on a slide, or you can have them look at all three at once. Emphasize that students need not find the exact answer, but only to see which one is closest, using mental math if possible. Allow students to post responses in the chat box, then ask for volunteers to explain how they found the closest answer. Record students’ strategies.

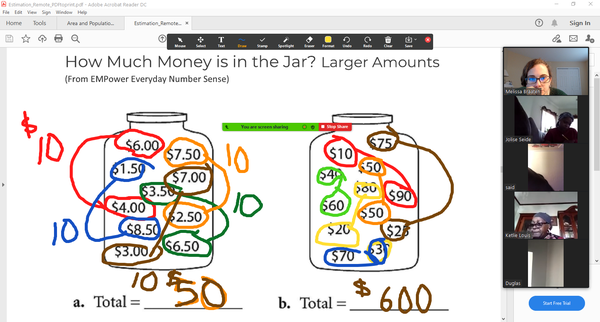
## How Much Money Is in the Jar? 1 and 2

Encourage students to look for amounts that would be easy to add. Starting with the picture of the jar seems to help students who want to automatically plunge into addition from left to right. This is a good exercise to let students help each other with, since some will probably find combinations of $1 on their own, and other students are often impressed with how much easier the addition becomes with this method. Other jars have amounts that lend to combinations of $10 or $100.

Encourage students to cross out or color code amounts to make sure that they are adding all the amounts once.

# Vocabulary and Things to Watch For

## Numbers without a partner

Some students lost track of numbers that did not ‘match’ with another number, or were unsure what to do with them. Simple visual strategies such as crossing out the numbers on their own page or color-coding annotations on the screen can help with this.

## Losing track of the size

Since all of the amounts combine to either $1, $10, or $100, many students treated them like they were all $1 or otherwise lost track of the actual size of the groups they were combining. When going over their results, make this explicit: What size groups were you making here?

# Teacher Notes for Routines

## Which One Doesn’t Belong? 3

***Note:*** *The sides of a solid are called faces. The white and red dice are cubes, the bronze die is an octahedron, and the gray die is a dodecahedron. This vocabulary is not necessary for students at this level (except for cube). They can describe the attributes in their own words.*

Some possible responses:

* The upper left is the only die that represents numbers with dots.
* The upper right is the only die with sides/faces that are triangles (or the only die that has 8 sides/faces, or the only die that appears to be made of metal, or the only die with sharp points/vertices).
* The lower left is the only die that is red (or the only die on which a 1 is visible).
* The lower right is the only die that is gray (or the only die to use roman numerals, or the only die to have pentagonal sides/faces, or the only die to have the same number visible more than once).

## Pyramid Puzzle 3

This puzzle is a not an Open Middle problem, and there is one correct way for the pyramid to be filled out. Make sure that students understand the word *sum* and how the pyramid works. You can create more pyramid puzzles, then leave the same boxes blank. Do one or two together with the class until everyone understands how the puzzle works before letting them work in groups or independently.

**Top Row:** 20

**Second row:** 8, 12

**Third row:** 3, 5, 7

**Bottom row:** 1, 2, 3, 4

## Number Line Puzzles 3:

**A:** $70, $74, intervals of $4

**B:** $210, intervals of $5

**C:** $2.45, intervals of $0.15

**Number Sense Quiz (Units 1–3)**

Students’ explanations of their thinking will be the most valuable for assessing their progress, but answers are listed below.

**1a)** Around $30. Take note of student strategies.

**1b)** Around $19. Take note of student strategies.

**2a)** $4

**2b)** $56

**3a)** $20

**3b)** $250

**4)** Yes. Total is around $19. Take note of student strategies.

**5a)** 40. See if students make use of friendly combinations to add.

**5b)** 300. See if students make use of friendly combinations to add.

**Unit 4: Gauges**

|  |  |
| --- | --- |
| Learning Objectives | CCRSAE |
| I can read a gauge. | 3.MD.1-2, 4.MD.2 |
| I can give a reason why one choice doesn’t belong with the group. | MP.3 |
| I can keep working on a challenging problem even if I don’t understand it right away. | MP.1 |
| I can fill in missing numbers on a number line. | 2.MD.6, also with intervals of lengths greater than 1 |

***NOTE:*** *EMPower materials featured in Unit 4 can be found in Lesson 1 (Close Enough with Mental Math) and Lesson 2 (Mental Math in the Checkout Line) of the Everyday Number Sense: Mental Math and Visual Models books.*

# Math Background

Gauges use number lines to show a measurement of something. They rely on basic number line concepts of proportional intervals, and the idea that tick marks indicate precise locations, which in this case stand for real world measurements. Many gauges do not label all of the tick marks, and measurements may fall in between marks, so there is often some proportional reasoning and estimation that has to occur to get a reading.

Because gauges are measurement tools, they also have ranges that correspond to their use. The gauge on a kitchen stove doesn’t show cold temperatures. The air pressure gauge for tires doesn’t show 0 psi (if that were the case, we wouldn’t need a gauge to tell us!)

Make use of the content to allow students to share and build their background knowledge of gauges and their uses and measurement units.

# Relevance

All adults have encountered gauges: on stoves, in cars, on medical equipment, even clocks and rulers are gauges of a sort. Adult students who struggle to read gauges may avoid using them or rely on someone else to read it for them. As they gain proficiency with reading gauges for themselves, they often feel a new sense of efficacy and independence.

# Activities and Practice

## Opening Discussion

The opening activity of this unit involves doing a notice/wonder activity with students about a gauge. Project a clear image of the gauge from page 36 of the student packet, and first ask students to share (possibly in a chat box, to make sure you get maximum participation) two things they notice about the image. Read through student observations (when everyone has had a chance to share). See if students are paying attention to which intervals are labeled, the size of the intervals, and the maximum and minimum numbers.

Then, ask them to share one thing they wonder about the picture.

Ask them to share (again, possibly starting in the chat) what number the pointer is pointing to and how they know.

Brainstorm where they have seen gauges like this and what they think this one might measure.

## Examples of Gauges

You could facilitate this as a class, looking closely at each gauge individually, or have students look at different gauges in groups and report back. For each gauge, they are trying to answer the four questions:

1. What is the smallest interval worth?
2. Which numbers are labelled?
3. What is are the smallest and largest amounts that this gauge can measure?
4. What do you think this gauge would be used for?

If they don’t come up, or even if they do, reinforce these takeaways from the conversation:

* Gauges use number lines to show measurements.
* Like other number lines, intervals of equal size have equal value.
* Not all tick marks are labeled on a gauge.
* The minimum and maximum values on a gauge are determined by its use.
* The difference between the minimum and maximum values is called the *range*. (For example, the thermometer has a range of 42 – 34 = 8 degrees Celsius.)
* Units matter, since we are measuring things in the real world.

You can also ask students to take pictures of examples of gauges they find in their home, and share the images in class for further discussion.

## Notes about the examples on page 38

A clock hanging on the wall

Description automatically generatedGauge 1

* This is a blood pressure gauge or sphygmomanometer. It measures pressure in mmHg (millimeters of mercury).
* The smallest intervals are worth 2 mmHg.
* The tick marks are labelled every 20 mmHg.
* The smallest amount that can be measured is 0 mmHg, the largest is 350 mmHg (at the same spot as 0). This is a range of 350.

Gauge 2

This is an analog thermometer, measured in degrees Celsius.

A close up of a logo

Description automatically generatedThe smallest intervals are .1 °C (one tenth of a Celsius degree).

The tick marks are labeled every 1 °C.

The lowest amount that can be measured is 34 °C, the highest is 42 °C. This is a range of 8 °C. Since this is a tool to measure human body temperature, it only measures the spread of temperatures likely to be found. 37 °C is a normal body temperature (98.6°F), which is why it is red on the gauge.

Gauge 3

This is a speedometer. It measures the speed of a vehicle in kilometers per hour (km/h).

The smallest intervals are 10 km/h.

A close up of a clock

Description automatically generatedThe tick marks are labeled every 40 km/h.

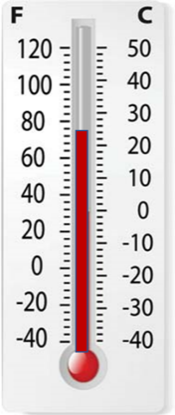
The lowest speed that can be measured is 0 km/h, the highest is 240 km/h. This is a range of 240 km/h. (The maximum and minimum tick marks are not labeled. They are the bolder, horizontal tick marks. There is also a tick mark before and after the bold ones. It is not clear what this would mean on the 0 end. It is possible that the gauge can measure up to 250 km/h on the high end.) Since this is a tool to measure speed, the spread of speeds are those the vehicle is (possibly) capable of.

## More Practice

* **Practice: Reading Gauges**
* **Digital Read-out**

# Vocabulary and Things to Watch For

## Vocabulary

****gauge, interval, range, units, analog**

## Assuming the smallest interval is 1

For example, let’s say students were presented with the following thermometer. It is common for students to read this as 64 (° F) or 22 (°C). They look for the tick mark below the reading and round up by 1. One way to help students see their error is to zoom in on the image and ask them to keep counting until they reach the next labeled tick mark. They will see that the value they count to does not match the label.

## Confusing the interval between labels and the interval between tick marks

A close up of a clock

Description automatically generatedUsually gauges do not have all of the intervals labeled. For example, on this gauge, the intervals are worth 2, but only every 5th interval is labeled (worth 10 total). This requires students to figure out the value of the smallest interval. They can do this by dividing the value of the interval between labels by the number of small intervals in that space (10/5 = 2) or using trial and error, counting up (common method for students at this level), or by using proportional reasoning, finding a halfway point, then dividing those in half, etc.

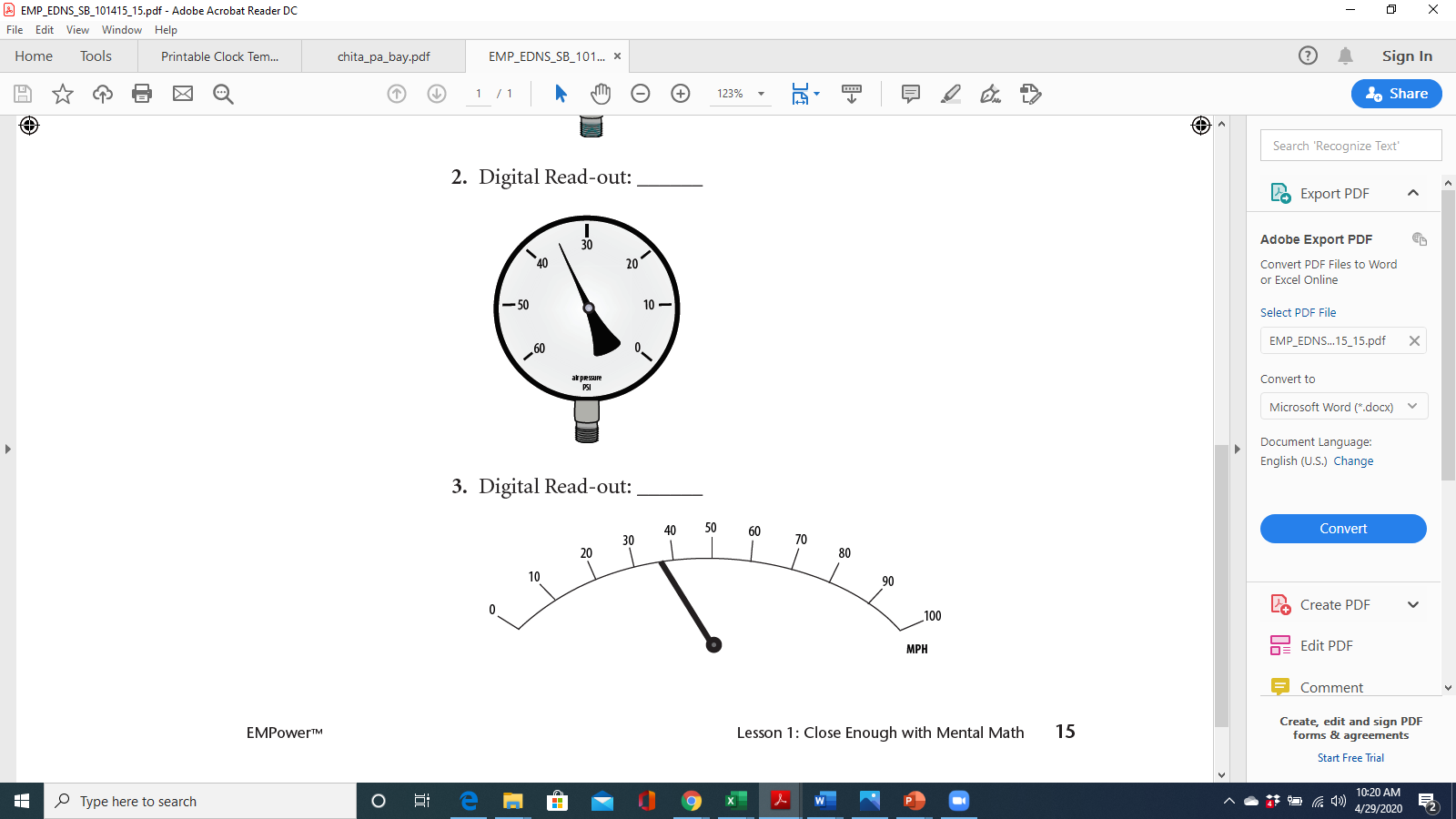
## Confusion when the maximum and minimum values are not clearly labeled

The minimum and maximum values are sometimes not labeled because there is no space, or for aesthetic reasons.

A close up of a logo

Description automatically generatedFor example, this thermometer actually measures down to 34 °C. Students may have to count backwards to find the lowest value.

## Difficulty reasoning about the value when the gauge is not on a tick mark

The example on the right is from page 42. Sometimes, students have to estimate the reading by comparing where the dial is relative to the nearest tick marks. Simple proportional reasoning, such as noticing that the dial is halfway between 30 and 40, can help students get a good estimate.

## Forgetting about the context

Gauges are number lines with a purpose. As you work through this unit, bring students back to their application and use by asking them to notice units, ranges, and to connect these to what the gauge is meant to measure. Ask them to reflect on the gauges they encounter in their home and life.

# Teacher Notes for Routines

## Which One Doesn’t Belong? 4

This is the first *Which One Doesn’t Belong?* routine that uses just numbers. Help students brainstorm characteristics of numbers that could be used to put them in categories.

***Note:*** *Most of the vocabulary that might come up is relevant for students at this level, such as digit, even/odd, and multiple. Provide this vocabulary if it is relevant.*

In the process of working through this problem, students may also notice attributes that two of the numbers have in common, such as the fact that 45 and 150 are both multiples of 3 and 15. While this doesn’t quite answer the task, it is still a valuable and mathematically relevant observation.

Some possible responses:

* 1 doesn’t belong because it is the only number that is not a multiple of 5 (or the only number that doesn’t include the digit 5).
* 5 doesn’t belong because it is the only single digit divisible by 5. (or the only prime number.)
* 45 doesn’t belong because it is the only number that is a multiple of 9 (or the only two-digit number).
* 150 doesn’t belong because it is the only even number (or the only multiple of 10, the only three-digit number).

## Pyramid Puzzle 4

**Top row:** 50

**Second row:** 27, 23

**Third row:** 17, 10, 13

**Bottom row:** 15, 2, 8, 5

## Gauge Puzzles

**Air pressure gauge:** 1000, 3000, intervals of 500 between labels, intervals of 100 between tick marks. Values on outer ring measured in psi (pounds per square inch).

**Thermometer:** 30, 0, intervals of 10 between labels, intervals of 1 between tick marks. Values measured in degrees Celsius.

**Other Gauge:** 20, 30, intervals of 10 between labels, intervals of 2 between tick marks. No units given.

**Unit 5: Equations**

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| --- | --- |
| Learning Objectives | CCRSAE |
| I can write a true equation. | 1.OA.7 |
| I can give a reason why one choice doesn’t belong with the group. | MP.3 |
| I can keep working on a challenging problem even if I don’t understand it right away. | MP.1 |
| I can fill in missing numbers on a number line. | 2.MD.6, also with intervals of lengths greater than 1 |

***NOTE:*** *EMPower materials featured in Unit 5 can be found in Lesson 2 (Mental Math in the Checkout Line) of the Everyday Number Sense: Mental Math and Visual Models books.*

# Math Background

## Meaning of the equal sign

Understanding the meaning of the equal sign is the foundation of algebra. Often, students at beginning levels of math associate the equal sign with a command to calculate an answer. They are used to seeing equations like this:

2 + 3 = 5

They may be confused when they encounter equations like these:

5 = 2 + 3

1 + 4 = 2 + 3

The equal sign, instead of a command to perform an operation, is making a statement that the two expressions on either side of the equal sign have the same value. An equation is true if the two sides are, in fact, equal.

## Expression and equations

A mathematical ***expression*** (like 2 + 3) does not have an equal sign and does not have a truth value. Like the phrase “red shoes”, it cannot be true or false because it is not making any claim.

However, when we include an equal sign and another expression to make an ***equation*** (2 + 3 = 1 + 4), we are now making a complete math sentence (like, “Jane is wearing the red shoes.”) Now that we are making a claim (that 2 + 3 and 1 + 4 have the same value), our statement can be true or false.

# Relevance

Mathematical notation is a symbolic language for communication. It has structure, punctuation, and grammar of a sort. If students do not know this language, it will be harder for them to access mathematical ideas and to communicate their own mathematical ideas to others (it acts like a gatekeeper). Becoming fluent in this language is a skill that will increase their access to further knowledge and ideas, and often has the effect of reducing math anxiety. (Nothing makes students anxious like symbols they don’t understand!) In this unit, we start with the fundamentals (expressions, equations, and the equal sign) and pay close attention to ironing out the misconceptions that can occur.

# Activities and Practice

## Opening discussion

Display a phrase related to something you are wearing (like, “white scarf”). Ask students if this is true or false. Since you are wearing it, some students might say true, but point out that you haven’t made any claims about the item of clothing. Since you haven’t claimed anything, it can’t be true or false.

Then write, “I am wearing the white scarf” (or something similar). Ask, *How is this different?* Guide students to see that the second, complete sentence makes a claim (that can be true or false), while the first does not.

Then write 2 + 5. Ask, *Is this true or false?* Explain that this is a mathematical phrase, like “white scarf” that makes no claim. These phrases are called expressions.

Then write 2 + 5 = 7. Again, ask, *Is this true or false?* Explain that now we have a complete math sentence, which is making a claim that 2 plus 5 is equal to 7. This complete math sentence is called an equation.

## What Is an Equation?

Display the four equations below.

10 + 5 = 15 15 = 8 + 7

5 + 10 = 8 + 7 2 + 5 = 9 – 2

Give students a chance to notice and wonder at the examples of equations. They should notice that while all of them have an equal sign, they do not all have a single ‘answer’ on the right side. Allow students to share what they think about this. Then read the page to clarify the meaning of the equal sign.

***Note:*** *The activities “Make It True” and “Check Both Sides of the Equal Sign” were excerpted from Lesson 2: Mental Math in the Checkout Line in the EMPower Plus: Everyday Number Sense Teacher Book.*

## Make It True

This is an opportunity for students to think about the equal sign and its role in showing that two sides of an equation are equal. The activity positions the equal sign in places other than at the end of a series of operations. Typically the equal sign indicates: “Here comes the answer,” such as in the problem:

2 + 3 – 4 + 5 =\_\_\_\_

In the problems in this activity, the unfamiliar set-up is meant to trigger critical thinking about the value of the numbers. Students need to think critically about the value of the numbers in order to create a balanced equation.

Give students time to notice patterns and justify their reasoning.

Ask students to work individually or in pairs to determine the solution to each problem. Then, as a class, have volunteers share their reasoning about how they determined where to place addition signs and the equal sign. Be sure that students can articulate that the equal sign is not a signal to ‘do’ something, but rather to show that the values on each side of the equal sign are equivalent. This will build understanding of the mathematically important concept of ***equality***.

## Check Both Sides of the Equal Sign

This inspection is designed to encourage students to understand why a simple mental math trick works when adding numbers. Addends can be adjusted to make it easier to add numbers in your head. For example, 79 + 7is easier to compute if you think of it as (79 + 1) + (7 – 1), or 80 + 6. This works because by adding and subtracting the same amount you are only adding 0. This activity can highlight the additive inverse (*a* + -*a* = 0) and additive identity (*a* + 0 = *a*) principles.

Begin by asking students to articulate what the equal sign means (that the value on the left is equivalent to the value on the right). Ask them to verify that this is true for each of the three equations.

First, show 9 + 7.

Then, show 10 + 6.

**Ask:** *Are these amounts equal?*(Yes)

**Then ask:** *How do you know?*

People may have varied responses (i.e., because I know my facts—they are both 16; because 10 is 1 more than 9 and 6 is one less than 7). Record responses for all to see.

For students who struggle to see the pattern, offer additional examples using small numbers and allow them to use manipulatives (dried beans or cereal work well) to see how the numbers change from one side of the equation to the other. For example, the first equation could be modeled using a pile of nine beans and another pile of seven beans. By shifting one bean from the second pile to the first, students can see why adding one to the first pile necessitates subtracting one from the second. Give struggling students more problems with small numbers to work out with chips until they are clear why the amount added and subtracted must be the same.

Focus on the idea that we haven’t taken anything away nor added anything, just rearranged the numbers: 10 is one more than 9 and 6 is one less than 7, so we still have the same amount.

## More Practice

* **Fast Actions with 10 or 100:** For practice seeing the patterns when adding 10 or 100 to a number. Draw attention to how the place values do or do not change.
* **Fast Actions with 9 or 90:** This builds on the previous practice activity, nudging students to use what they know about adding 10 or 100 to find a strategy of adding 10 and subtracting 1 to add 9 (or adding 100 and subtracting 10 to add 90).

# Vocabulary and Things to Watch For

## Vocabulary

**expression, equation, equal sign, sum**

## The equal sign means find an answer

This is often conditioned by the way beginning computation is taught:

10 + 5 = ?

In this case, students are usually expected to find the ‘answer’, meaning, the whole number sum of 10 + 5. Students learn to associate the equal sign with a command to come up with an answer. This is a very limiting view of the equal sign that can cause difficulties later when students encounter algebraic equations like *x* + 1 = 9 (If 9 is the answer, what do I do now?) or *x* + *y* = 3 (How am I supposed to add *x* and *y*?)

Even students working only with numerical equations (no variables) can become fluent in a much richer understanding of the equal sign. For example, the equation 10 + 5 = ? can just as correctly be completed this way 10 + 5 = 9 + 6. The task can be richer than simple computation, 10 + ? = 15. Equations with a single whole number on one side can start with that number (15 = 10 + 5) or even simply express identity (15 = 15). Exposure to different structures of equations can help students develop a more accurate understanding of the equal sign as a claim of equality, which will become a valuable foundation for later algebraic reasoning.

## The first number after the equal sign is the answer

Seeing the equal sign as a command to calculate an answer is a common mistake. For example, when students see an equation like this:

9 + 7 = 10 + 6

they may interpret it as saying that the sum of 9 and 7 is 10, and then they should add 6 more (which leads to confusion, since 9 + 7 isn’t 10). This can often be seen as well in student’s own work. A student who has to add the numbers 1, 2, 3, and 4 may notate it as follows:

1 + 2 = 3 + 3 = 6 + 4 = 10

This is very common, and shows that the students are using the equal sign to mean ‘the answer is’ rather than expressing equality of expressions. While it is not advisable to overly-correct how students notate their own calculations while they are working them out, this is an important signal to the teacher that they need a better understating of the equal sign.

# Teacher Notes for Routines

## Which One Doesn’t Belong? 5

Some possible responses:

* 7 + 8 = 10 + 5 doesn’t belong because it is the only equation with an operation on both sides (also the only one containing numbers other than 5, 10, and 15).
* 15 = 15 doesn’t belong because it is the only equation with the same number/expression on both sides (also the only one that doesn’t add 10 and 5)
* 5 + 10 = 15 doesn’t belong because it is the only equation where the numbers are in “order” (from smallest to largest).

Students may also offer answers like, 5 + 10 = 15 is the only one that has an ‘answer’. If so, you can probe for clarification by saying, *Do you mean it is the only one with an addition on the left and a single number on the right?* You can also ask students to compare and contrast any of the equations, especially the top two.

## Make It Equal

To scaffold this Open Middle problem, you may want to start without the restriction on digits. This is a great problem to see if students are understanding the equal sign correctly. Are all three expressions equal, or do they use the equal sign to mean ‘the answer is’ as they add from left to right?

There are four solutions that work with the restriction to use digits 1-9 only one time each (the numbers in each sum can be rearranged as well):

8 = 2 + 6 = 1 + 3 + 4

9 = 1 + 8 = 2 + 3 + 4

9 = 2 + 7 = 1 + 3 + 5

9 = 4 + 5 = 1 + 2 + 6

## Adding Two-Digit Numbers Given One

Again, it may be helpful to scaffold by starting without the restrictions on digits.

There are many correct solutions to this problem. It is helpful to notice that both the missing numbers are two digits, and that the difference between them is 53. That can help to establish a maximum and minimum for the missing addend and the missing sum.

## Number Line Puzzles 5

**A:** 28, 35, intervals of 7

**B:** 250, 550, intervals of 150

**C:** 12, 60, 72, intervals of 12

## Test Practice

**1)** b

**2)** e

**3)** b

**4)** a

**Number Sense Quiz (Units 4 & 5)**

Students’ explanations of their thinking will be the most valuable for assessing their progress, but answers are listed below.

**1)** 130 km/h. See if students are able to identify the intervals of 10 and why 130 would fall at the designated tick mark. Also see if they pay attention to the units (km/h)

**2)** (a) is true because both sides have a value of 5.

(b) is not true because the left has a value of 12 and the right has a value of 13

(c) is not true because the left has a value of 11 and the right has a value of 12

(d) is not true because the first expression has a value of 5, the second has a value of 6, and the third has a value of 6. This is how many students (incorrectly) use the equal sign in their own calculations.