

Core Focus

- Counting objects from 1 to 10
- Writing numerals from 0 to 10
- Matching number names, pictures, and numerals



Numbers 0-10

- Students extend their counting skills to work with groups to ten. They recognize and create sets of objects (1 to 10) and match sets with the numerals and number names.
- A **five-frame** helps students develop a benchmark for working with numbers. They begin to identify the number in a collection without the need to count all of the objects. E.g. seven is a filled five-frame and two more. Similarly, a collection that does not fill the five-frame is less than five.

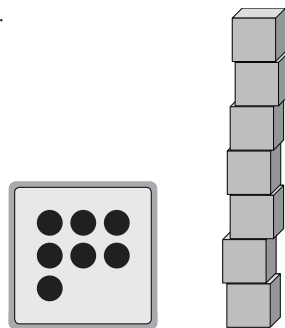
2.1 Using the Five-Frame

Draw the number of ○ to match each numeral.

6	5	8

In this lesson, students work with a five-frame to represent quantities from 1 to 9.

- Students develop number sense and learn to read and write numerals through repeated experiences with sorting and counting.
- Students match pictures, numerals, and concrete objects to build their understanding of numbers from 1 to 10. They see that five can be represented by five books, the word five, and the numeral 5. They also see that five can be five very small beans or five large chairs.



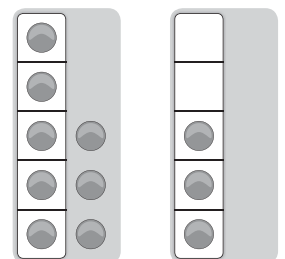
In this small group activity, students build a set with the same quantity shown on the card. Students are encouraged to draw their construction and write the number of blocks they used.

Ideas for Home

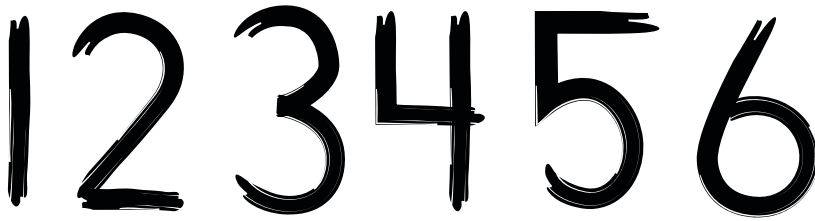
- Encourage your child to create their own 1 to 10 counting book by drawing pictures, using stickers and/or stamps, or cutting pictures from magazines. Ask your child to practice writing the matching numerals.
- Playing simple card games or games that involve dice can be an enjoyable way for students to practice counting and recognizing numerals and quantities.
- Ask your child to help with the grocery list by writing numerals and drawing simple shapes. E.g. your child can write and draw “6 apples” or “2 cartons of milk”.

Glossary

- A **five-frame** helps students develop five as a benchmark number. E.g. eight is a filled frame and three, while three is less than five because the five-frame is not quite filled.



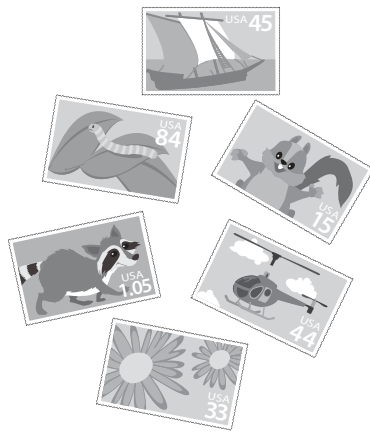
- Students learn simple rhymes to help learn to write numerals. It is normal for students to reverse some numerals as they are learning to write. This is not considered an error.
- A range of different contexts helps students develop motor skills for writing numerals. Writing numerals in sand using their fingers, painting numerals with a brush, or tracing numerals on a friend's back all help students learn how to form each numeral.



In this small group activity, students use finger-paint to practice writing numerals.

Sorting

- Students continue sorting activities by explaining their sorting rule. Counting and comparing the sorted groups provides repeated experiences to develop number sense.
- Students learn to describe their sorting rules based on attributes of the objects (color, design, shape, etc.) and invite others to guess their sorting rule.



Students create their own rules for sorting everyday objects like postage stamps or toy vehicles.

- In class, students answer simple yes/no questions (E.g. Do you have a pet? Do you like soccer?) and sort the responses in a graph.

2.6b Making Yes/No Graphs

Paste faces in the graph to show yes or no.

yes	no



In this lesson, students think of their own question to ask their classmates and record the results.

Ideas for Home

- Begin a sorting activity with toys or small household objects. Give your child an object and ask them which group it belongs to, and to tell how they know (e.g. can they name your rule?). Switch roles and see if you can add items to your child's sort.
- After your child has made a sort, ask if the items can be sorted in a different way. E.g. crayons may be sorted by color, length, sharp or dull, or whether the wrapper is on or off.
- Work with your child to think of several questions that can be answered with yes or no. Then ask family members and friends to answer and record the number of yes answers and no answers.

Glossary

- Students learn to match sets of objects to number names and numerals.

6	seven	8	nine
six			9
	7		eight