

Lesson 1: Numbers 1-5 (2 Days)

Getting Started

? Questions to Explore

- How do we explain our thinking mathematically?
- How do we show the value of a given quantity?
- What are the different ways to measure an amount?
- How do we make a plan to count numbers?



Facts and Definitions

- **Number:** a quantity of objects.
- A number can be shown numerically (2), in word form (two), and symbolically (\$\$).
- Numbers follow a sequential order.

⦿ Skills

- Develop a plan for counting
- Use manipulatives and graphic organizers to show number values and solve problems
- Recognize the quantity of objects with the corresponding numeral
- Write numbers 1-5 symbolically, numerically, and in word form
- Count to 20, starting at any number less than 20. In this range, read and write numerals and represent a number of objects with a written numeral

✂ Materials

- | | |
|---|--|
| • <i>Ten Black Dots</i> by Donald Crews | • paper plates (kit)* (Activity 6 - optional) |
| • abacus (kit) | • pennies, nickels, and dimes |
| • colored dot stickers (kit) | • play dollar bills (kit) |
| • colored pencils or markers | • scissors |
| • construction paper (kit) | • scissors* (Activity 5 - optional) |
| • counters (kit) | • set of double-nine dominoes (kit) |
| • crayons | • small plastic baggies* (Introduction - optional) |
| • glue | • stapler |
| • number cards (kit) | |

Introduction

During the first two lessons, your child will be reviewing the numbers 1-5 and learning how to show them in word form and number form using manipulatives and finger patterns. He'll also be practicing many routines that he'll use throughout this and other units moving forward.

NOTE: Several math units in this level require coins for a variety of activities. We recommend that you begin collecting the coins now, put them in a baggie, and keep them with the rest of your math materials for easy access. If you prefer, you can keep the pennies, nickels, and dimes in separate bags. You should gather at least 20 pennies, 10 nickels, and 10 dimes.

Reading and Questions

Read aloud the first half (numbers 1-5) of the book *Ten Black Dots* by Donald Crews. As you read the book, show your child how to touch each dot as you count, and ask him to do the same to give him practice with one-to-one correspondence. If he can touch and count the dots without your help, allow him to do so, but observe to make sure that he's doing it correctly.

When you've finished reading the book, pose the following questions. Feel free to ask each question more than once to give your child extra practice with identifying given numbers of objects.

1. Can you find one object in the room?
2. Can you find two objects in the room?
3. Can you find three objects in the room?
4. Can you find four objects in the room?
5. Can you find five objects in the room?

Activities

Activity 1: Numbers 1-3

Show the following: a number card showing 1, a domino with 1 dot, the abacus with 1 bead moved to the right on the top wire, 1 counter, 1 penny, and 1 dollar bill (play or real). Ask your child to talk about what is the same about all of these. (they all show one) Now, do the same for the number 2 and the number 3. As you talk about these numbers, ask your child to show them on his fingers by holding up 1, then 2, and then 3 fingers. After you've had time to talk about the items and the numbers, ask your child to show the following: the card that shows 2, the domino that shows 3, 1 penny, 2 dollar bills, and 3 fingers.

In this activity, your child will be using the "Number 1," "Number 2," and "Number 3" sheets. On each page, he will trace the given number, write the number in word form, draw a picture to represent the value of the number, and color the given number of beads out of 10. Coloring the beads will prepare for him for his upcoming work with the abacus.

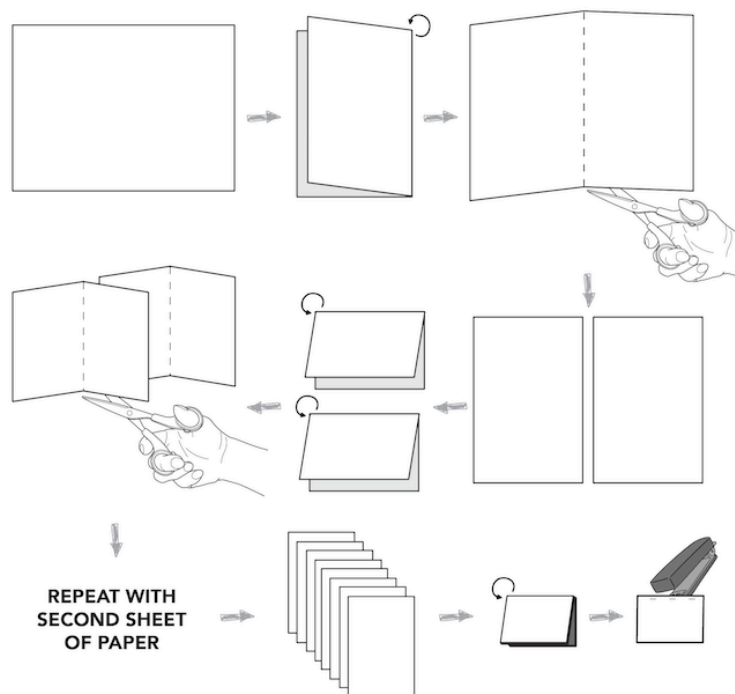
Activity 2: Book Activity

In this ongoing activity, your child will create his own dot counting book. After he has made the book, give him a few minutes to decorate the front of the book. Refer to the directions and illustration for details.

Directions:

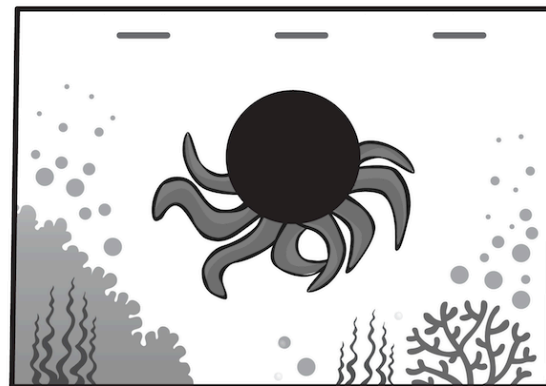
1. Fold a piece of construction paper in half short ways (hamburger fold).
2. Cut the paper in half along the fold.
3. Fold the two pieces in half and cut along the fold.
4. Repeat Steps 1-3 with a second piece of construction paper.
5. Stack the eight pieces of paper together.
6. Fold the stack in half.
7. Staple the folded end.

Book Activity Instructions



Give your child colored dots. Ask him what kind of theme he wants to use for his book. Examples could be a picnic, growing caterpillar, ocean animals, etc. Let your child use his imagination to pick the ongoing theme.

Encourage your child to place one dot on the first page and to draw a picture to represent the value of the number. See the example illustration for the number 1 using an ocean theme.



Repeat with numbers 2 and 3. Be sure to keep this book on hand as he will add pages for 4 and 5 in an upcoming activity and will add pages for 6 through 10 during Lesson 4.

Activity 3: Numbers 4 & 5

Place each of the following objects on a table: number cards (1-5 only), 5 pennies, 5 play dollar bills, 5 counters, and the abacus. Ask your child to find three ways to show the number 4 using these objects. Provide help as needed. Ask him to also show four using his fingers. Repeat this process with the number 5.

Next, give him the "Number 4" and "Number 5" sheets. On these pages, your child will trace the number, write the number in word form, draw a picture to represent the value of the number, and color beads to show the number.

Day 2

Activity 4: Counting Book

Give your child the dot counting book he began yesterday, and ask him to add pages for the numbers 4 and 5.

Activity 5: How Many Fish Do You Have?

In this activity, your child is asked to determine the correct numeral for a set of objects.

Option 2 is more challenging because your child must take a group of objects and put them in numerical order with their matching numerals. This option requires higher-level thinking and should be used if your child has already mastered the understanding of quantity of objects in numbers 1-5.

Option 1:

Give your child the "How Many Fish?" (Option 1) page. On this page, your child is given a set of fish and needs to count the fish and write the correct numeral to match the number of fish.

Option 2:

Give your child the two "How Many Fish?" (Option 2) pages. Your child will cut out the fish found on Page 2 along the dotted lines; group them into sets of 1, 2, 3, 4, and 5; glue them into the ponds; and write the correct numeral to match the set.

Activity 6: Matching Number Fun

In this activity, your child will match a given quantity of objects with the correct numeral and word form. Give your child the "Matching Number Fun" sheets, scissors, and glue, and provide help as needed. You may need to model the first number for him. An option is to give him small paper plates and let him glue the objects, numbers, and words to the plates.

Wrapping Up

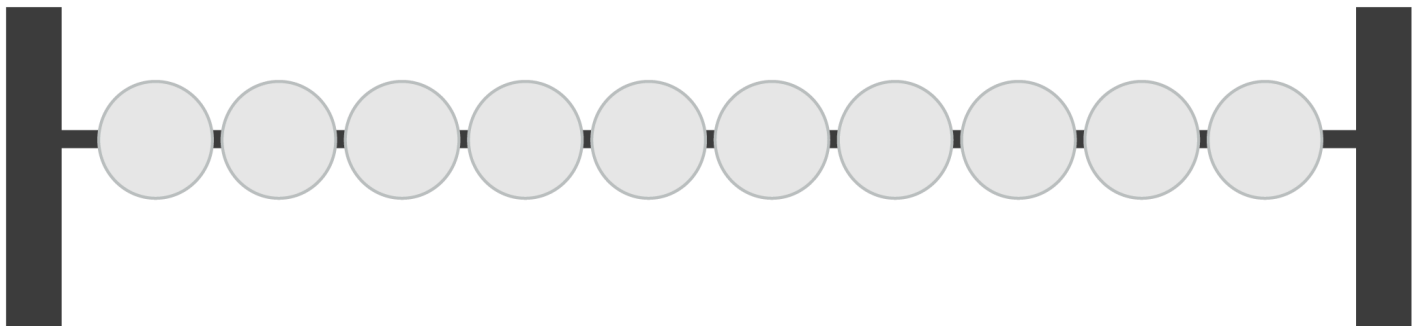
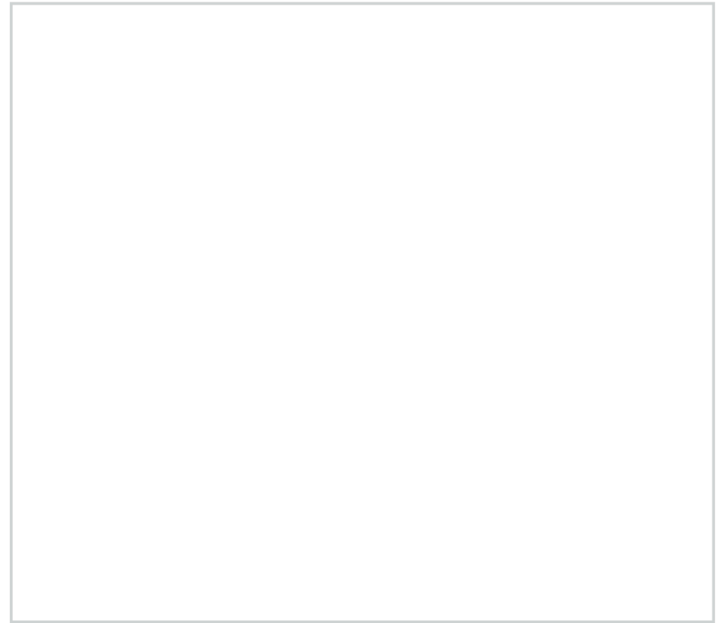
Play "I Spy" by giving clues that incorporate the numbers 1 through 5. For example, say, "I spy 2 things that are red" or "I spy 3 things that are shiny," and provide time for your child to guess what you spy. Take turns to allow your child a chance to be the "spy."

Learning Gates

Have your child take the [Learning Gates quiz](#) for this lesson.

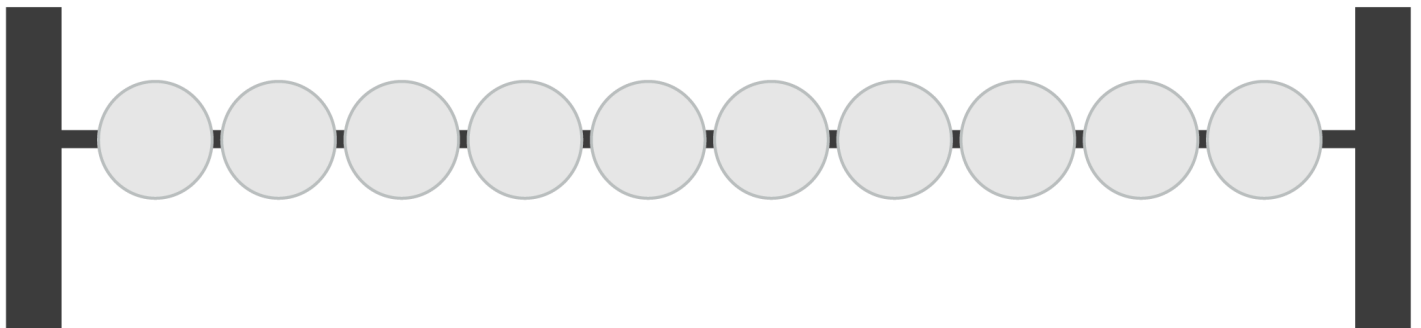
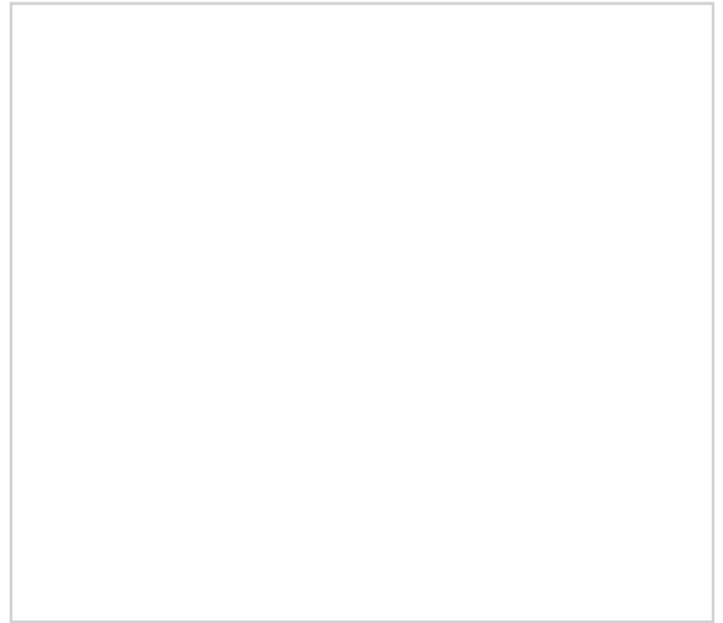
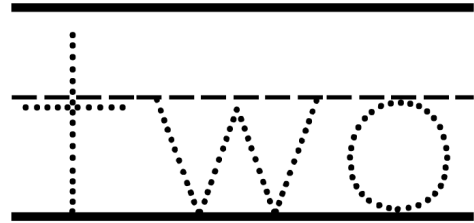
NUMBER 1

Directions: Trace the number, write the number word, draw a picture to show the number, and color the beads to show the number.



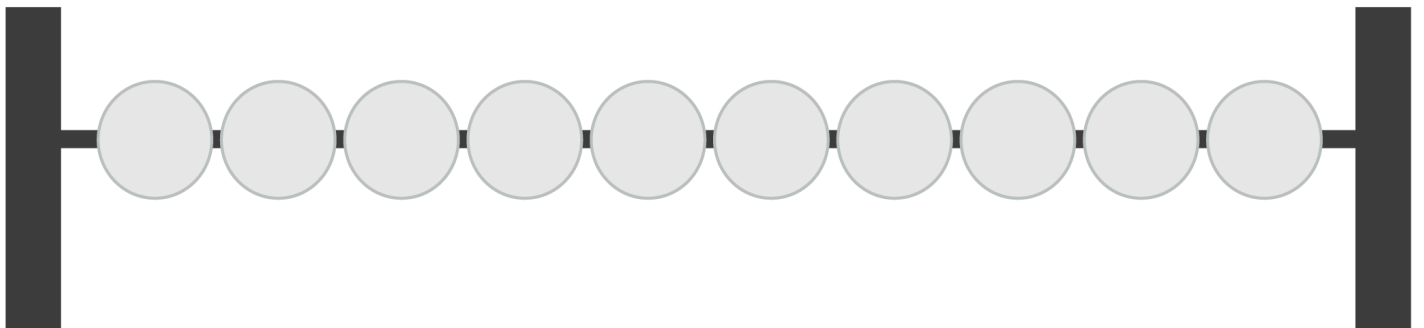
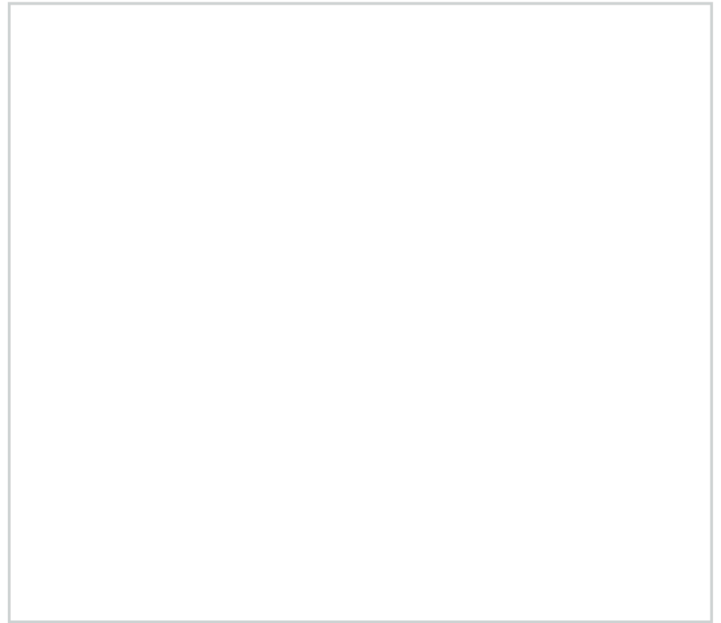
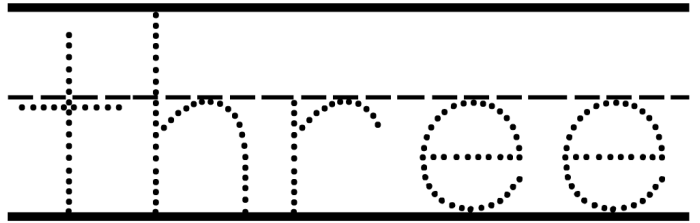
NUMBER 2

Directions: Trace the number, write the number word, draw a picture to show the number, and color the beads to show the number.



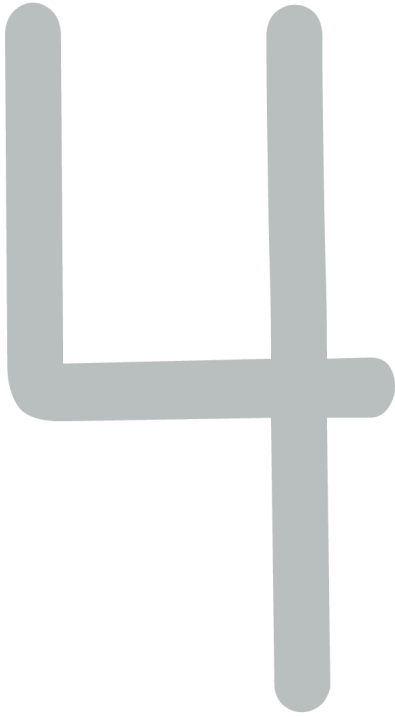
NUMBER 3

Directions: Trace the number, write the number word, draw a picture to show the number, and color the beads to show the number.

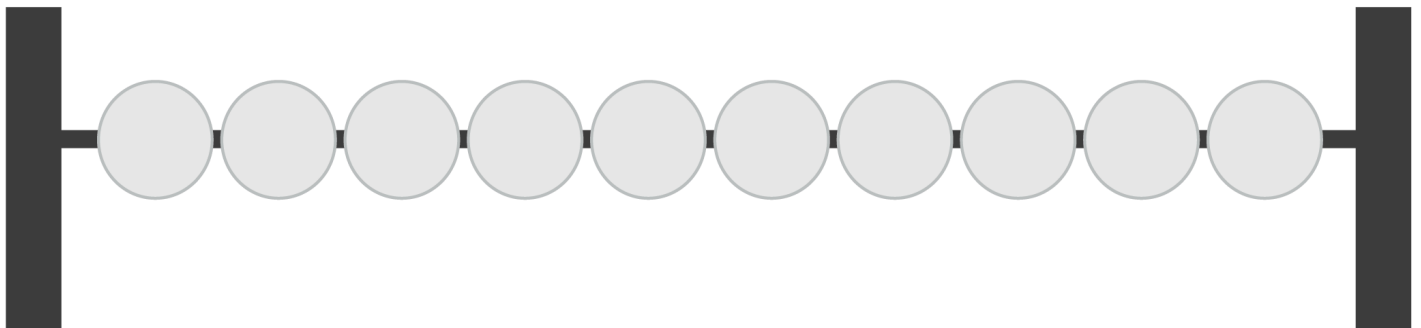
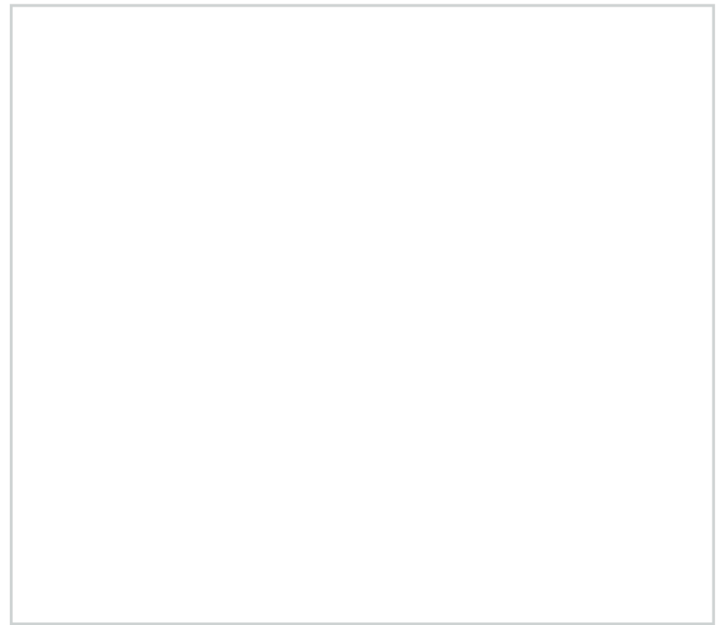


NUMBER 4

Directions: Trace the number, write the number word, draw a picture to show the number, and color the beads to show the number.

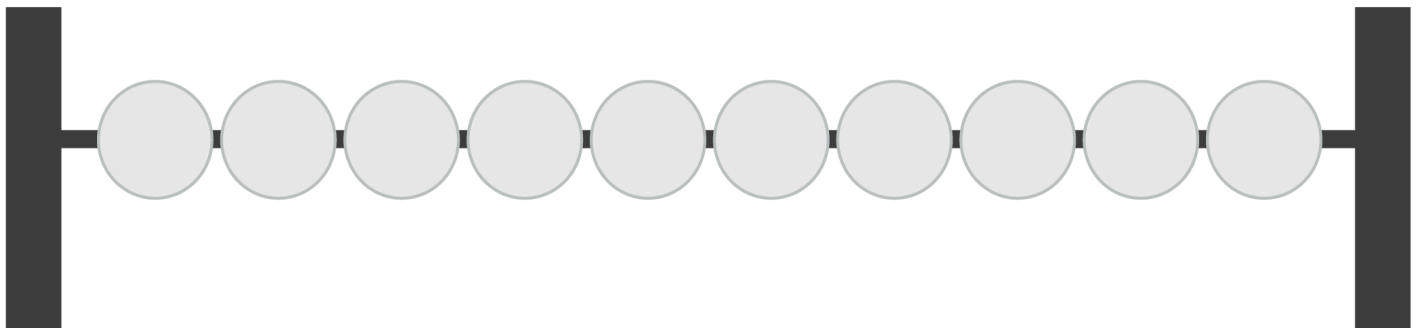
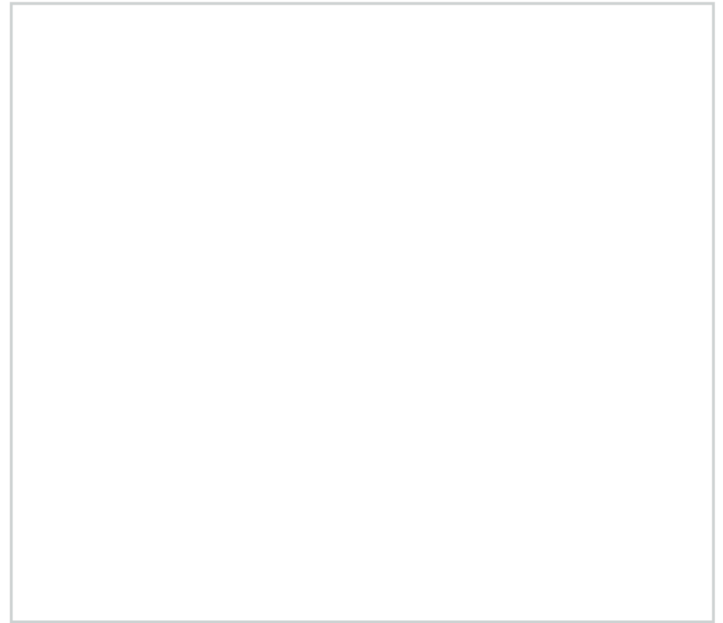
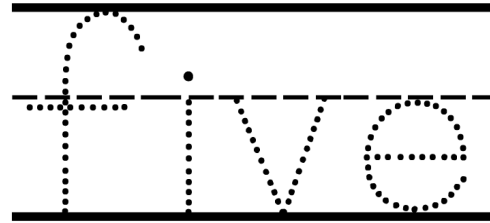
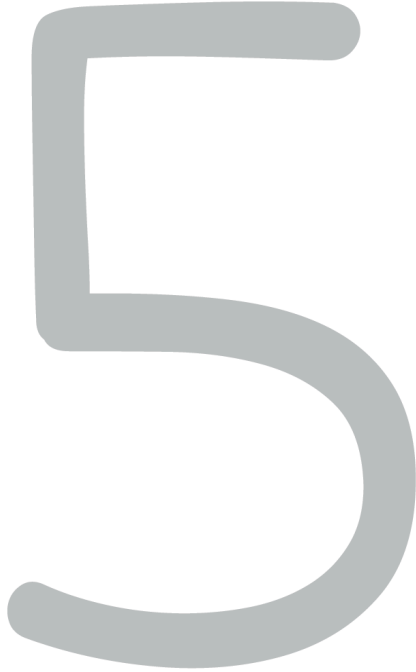


four



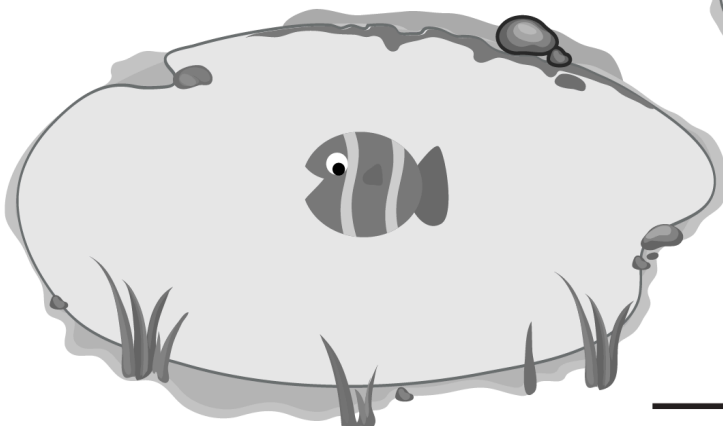
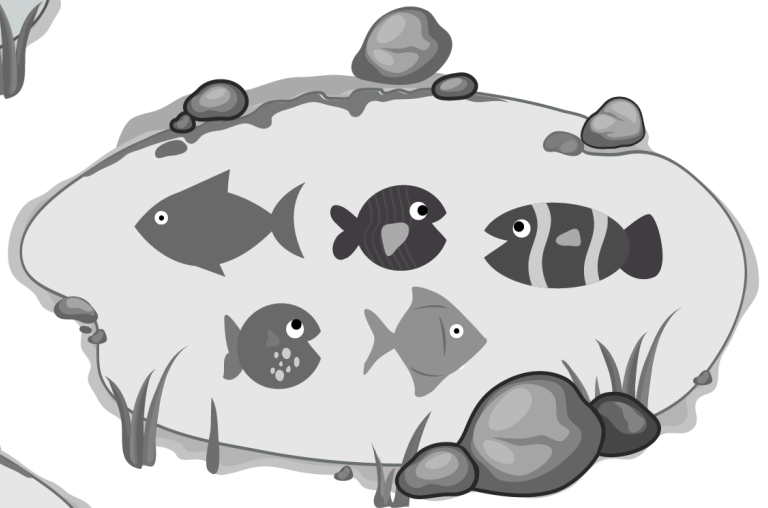
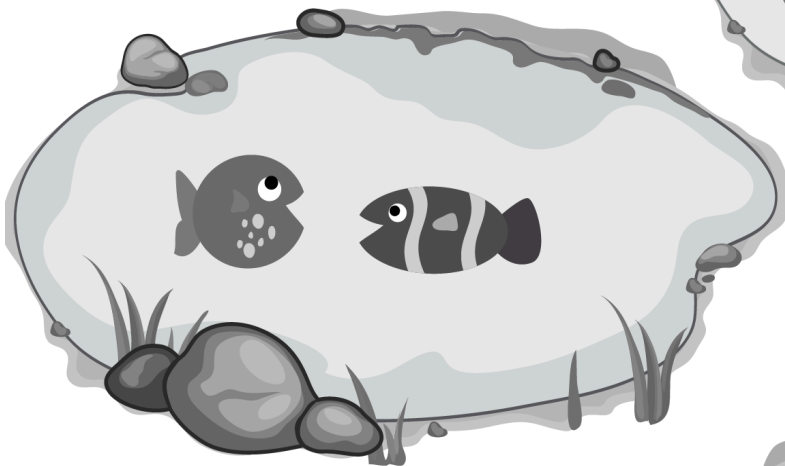
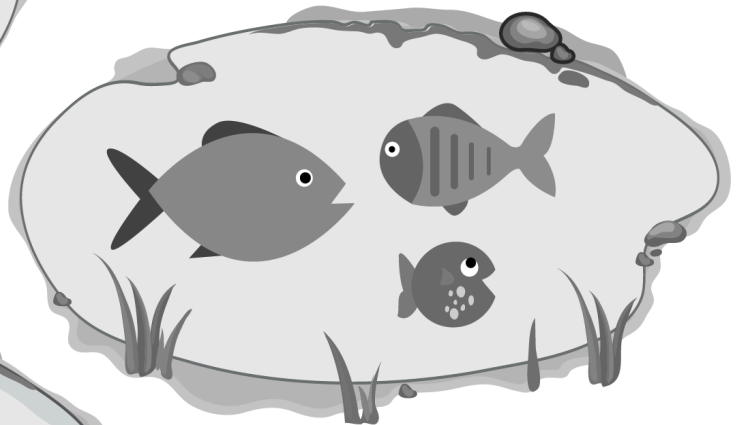
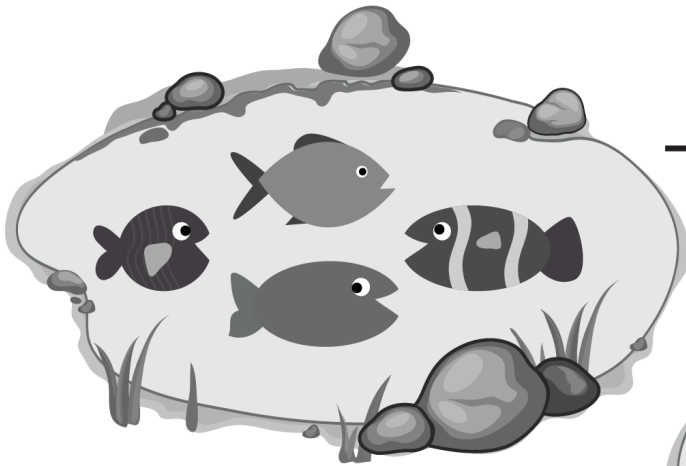
NUMBER 5

Directions: Trace the number, write the number word, draw a picture to show the number, and color the beads to show the number.



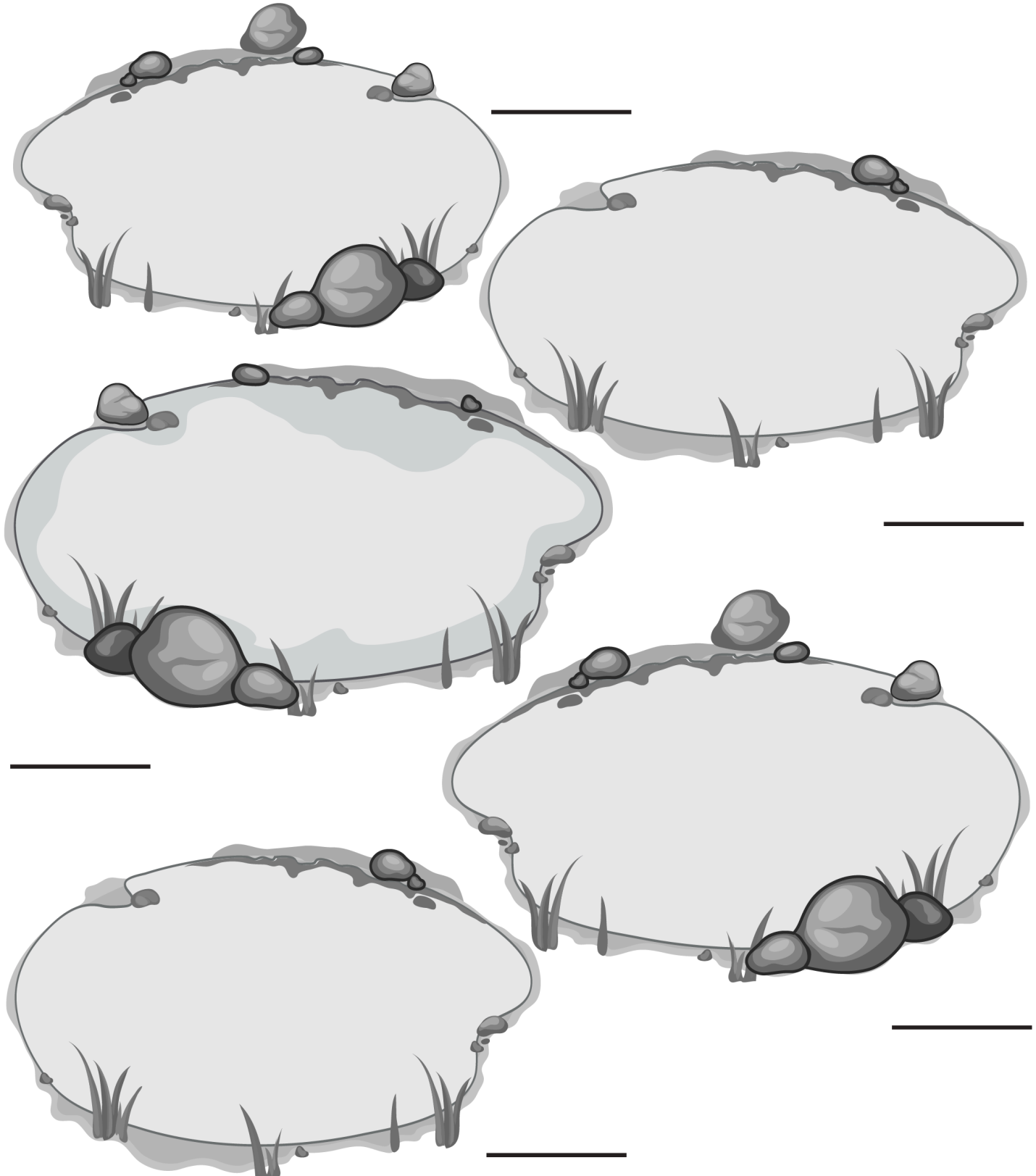
How Many Fish?

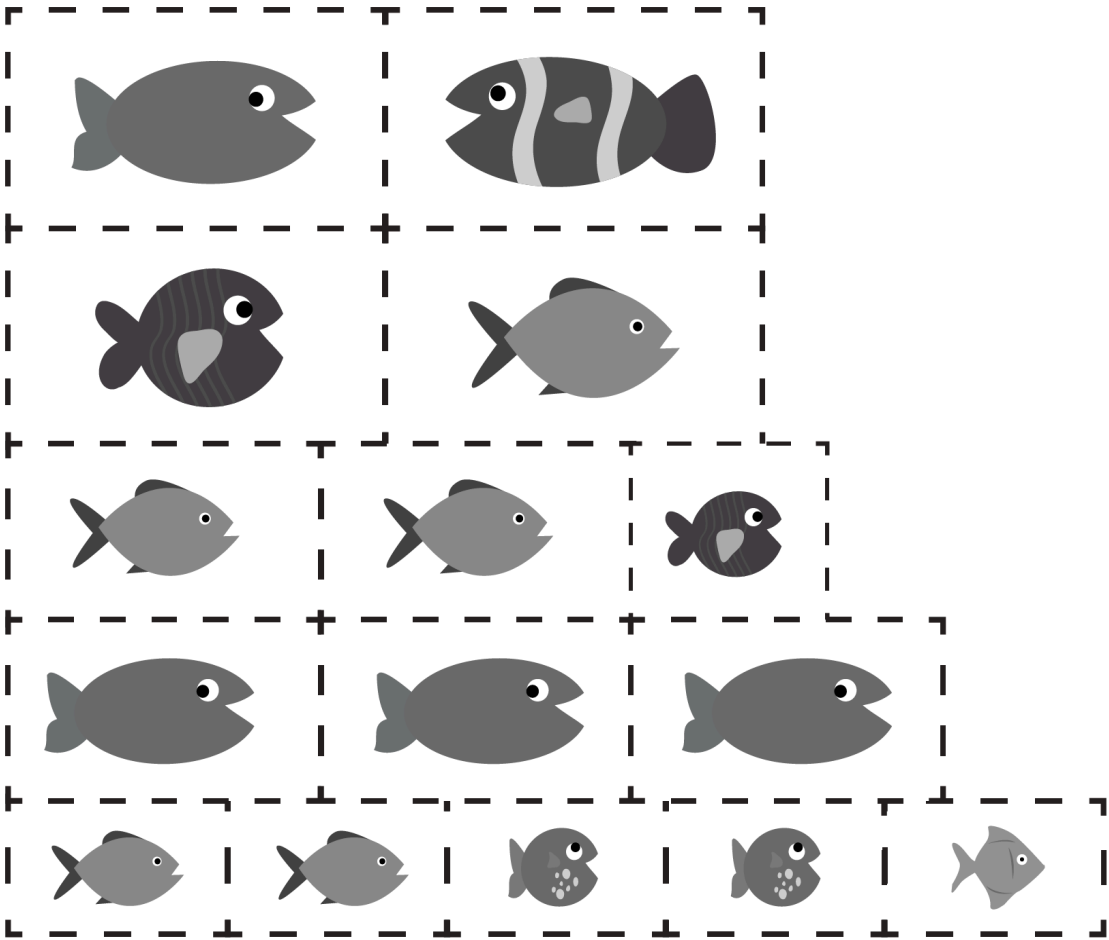
Directions: Write the correct number to match the number of fish in each pond.



How Many Fish?

Directions: Cut out the fish and place them in the ponds. Write the number of fish you have in each pond. Each pond should have a different number of fish.





Matching Number Fun 1

Directions: Cut out the numbers, words and groups of objects. Match the correct number, word and group of fruit and paste them onto the picnic plates.

