

Basic Math Application – Subtracting One

Lesson Objective: Children will learn the concept of subtracting “1 less” from 10 to 0, learn to count backward from 10, and that subtraction is the opposite of addition (i.e. “the reverse operation”).

Song: One Less Penny Blues

Lesson Includes:

- Lesson Introduction
- Lesson Script
- Mp3 Song
- Lyrics And Movements Page
- 2 Visual Aids
- Bridging Activity
- Activity Sheet
- Parent Guide
- Home Activity
- Movement Video





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Early Learning Strands:

- Math Operations; Subtraction

Academic Vocabulary: ten, nine, eight, seven, six, five, four, three, two, one, zero, take, away, pocket, pennies

Sight Words (Dolch/Brigance): I, have, in, my, yes, do, take, there, will, be, and, if, is,

Teaching Strategies:

- Sequencing
- Repetition
- Call & Response

Movement Strategies:

- Fine Motor

Additional Supplies Needed:

- Four 8½" x 11" clear transparency sheets





Basic Math Applications -

Subtracting One

"One Less Penny Blues"

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Interactive Dialogue

- Line up ten children in the front of the room and count them out loud together as a class. Then ask one to sit down, then count again. Continue until there are no more children. Emphasize that you are subtracting one each time.
- Using the Subtracting One Visual Aids, show the large pocket and put the ten pennies in the pocket counting one by one. Then have a child come up and take one penny out of the pocket saying "ten minus one is nine." Continue until all the pennies are gone.
- Then using the Visual Aids show the equation on the board (using the blue oval with ten pennies, the minus sign, then the red oval with one penny, then the blue oval with nine pennies. Continue demonstrating with the pennies ovals and as the class begins to catch on replace the pennies ovals with the numeral ovals.
- Have the children color and assemble their own pockets and pennies found in the Subtracting One Bridging Activity, so they can practice subtracting one with their neighbor.
- Listen to the song *One Less Penny Blues* and have the children observe as you do the movements.
- Invite the children to learn the song and movements. Walk the children through the movements in short segments. Have them repeat the movements as you say the words to the song.
- Play the song and have the children sing and do movements. Repeat.

Recommended Booklist

- Brisson, Pat. *Benny's Pennies*.
- Christelow, Eileen. *Five Little Monkeys Sitting in a Tree*.
- Hutchins, Pat. *The Doorbell Rang*.
- Murphy. *Monster Musical Chairs*.
- Peek, Merle. *Roll Over*.
- Penner, Lucille Recht. *Lights Out!*

Related Activities

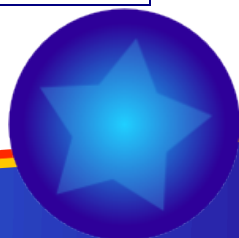
1. Give the children each 10 apple slices. Have the children count the apples after they eat each slice.
2. When handing out papers to the children count the total then count down saying "minus one equals ____" each time you hand out the paper.
3. Play musical chairs. Everytime you remove a chair count the chairs out loud emphasizing "minus one."
4. Go on a walk and have each child collect 10 items they find. Bring the items (rocks, leaves, etc.) back to the class and practice $10 - 1 = 9$ items down to zero.



One Less Penny Blues

Lyrics By: David Burba; Performed By: Loren Lay

<u>LYRICS</u>	<u>MOVEMENTS</u>
<p><i>Hey kids, don't forget to stay in school because school is cool.</i></p> <p>I have TEN pennies in my pocket, I have TEN pennies, yes I do. And if I take one penny away, There will be less, yes it's true. Because TEN take away ONE . . . is NINE. And NINE take away ONE . . . is EIGHT.</p>	<p>Have the children march around in a big circle to the beat throughout entire song.</p> <p>Hold out 10 fingers.</p> <p>Hold out 9 fingers. Hold out 8 fingers.</p>
<p>I have EIGHT pennies in my pocket, I have EIGHT pennies, yes I do. And if I take one penny away, There will be less, yes it's true. Because EIGHT take away ONE . . . is SEVEN. And SEVEN take away ONE . . . is SIX.</p>	<p>Hold out 8 fingers.</p> <p>Hold out 7 fingers. Hold out 6 fingers.</p>
<p>I have SIX pennies in my pocket, I have SIX pennies, yes I do. And if I take one penny away, There will be less, yes it's true. Because SIX take away ONE . . . is FIVE. And FIVE take away ONE . . . is FOUR.</p> <p><i>Instrumental . . .</i></p>	<p>Hold out 6 fingers.</p> <p>Hold out 5 fingers. Hold out 4 fingers.</p> <p>March around in circle clapping to beat.</p>
<p>I have FOUR pennies in my pocket, I have FOUR pennies, yes I do. And if I take one penny away, There will be less, yes it's true. Because FOUR take away ONE . . . is THREE. And THREE take away ONE . . . is TWO.</p>	<p>Hold out 4 fingers.</p> <p>Hold out 3 fingers. Hold out 2 fingers.</p>
<p>I have TWO pennies in my pocket, I have TWO pennies, yes I do. And if I take one penny away, There will be less, yes it's true. Because TWO take away ONE . . . is ONE. And ONE take away ONE is ZERO. <i>Yeah!</i></p>	<p>Hold out 2 fingers.</p> <p>Hold out 1 finger. Hold out 2 fists. Strike a cool pose and freeze!</p>





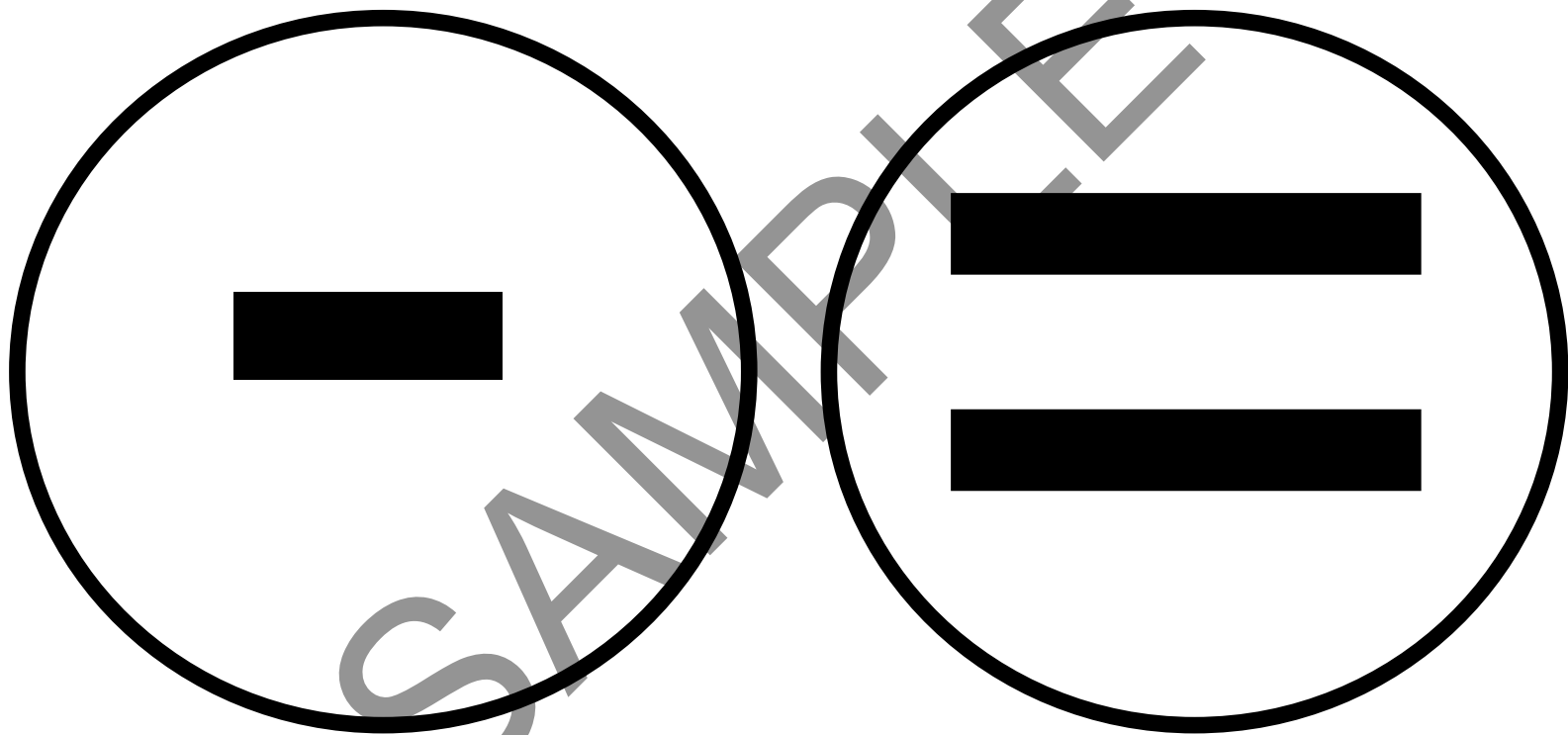
Subtracting One

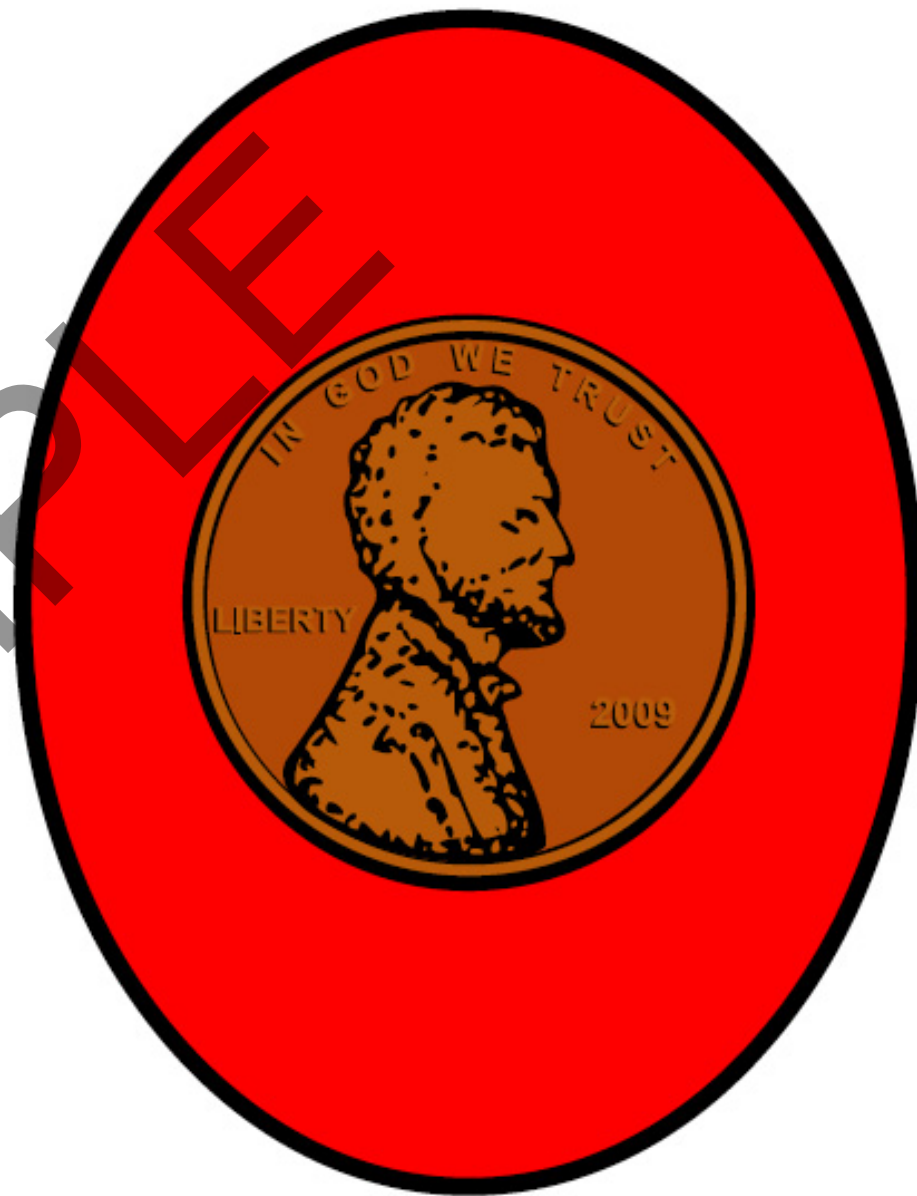
(Visual Aids #1)

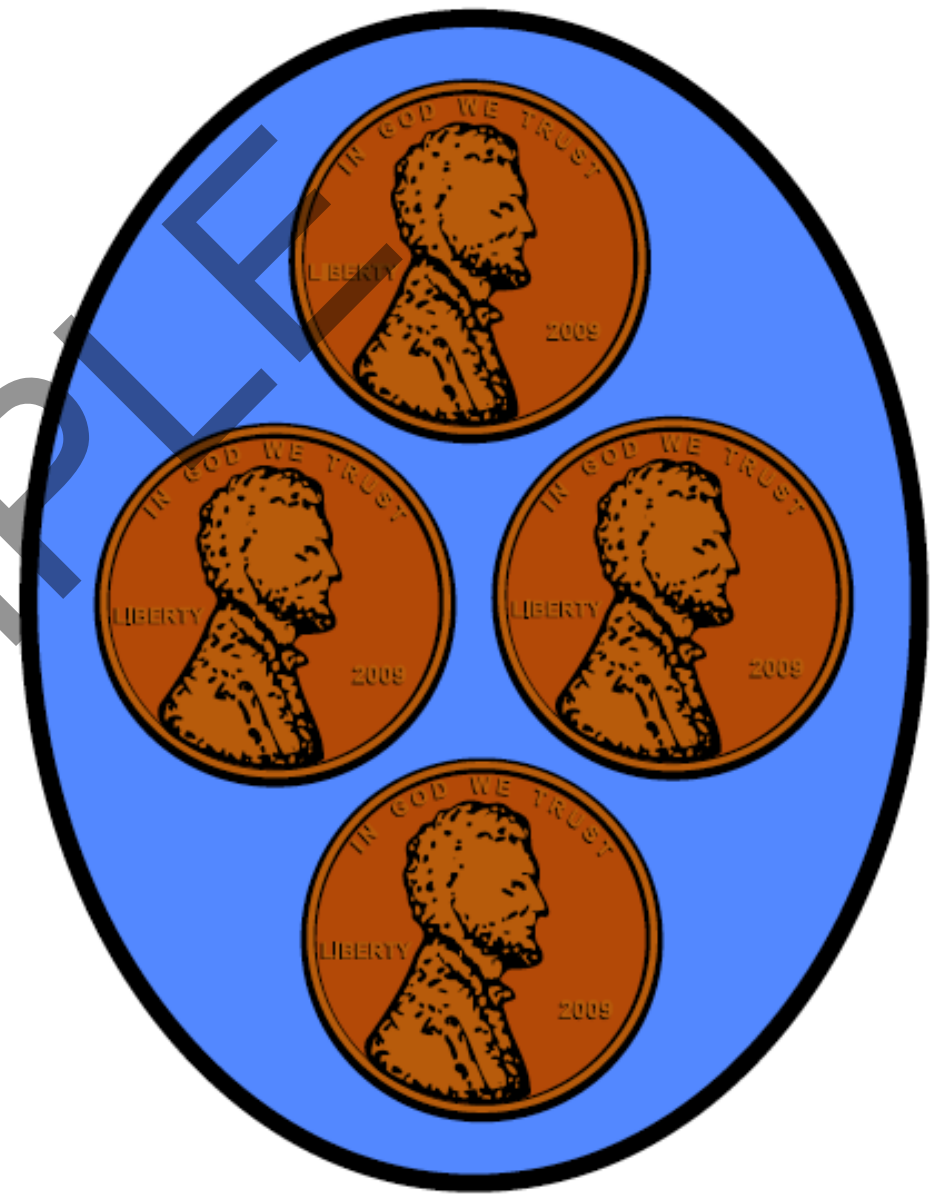
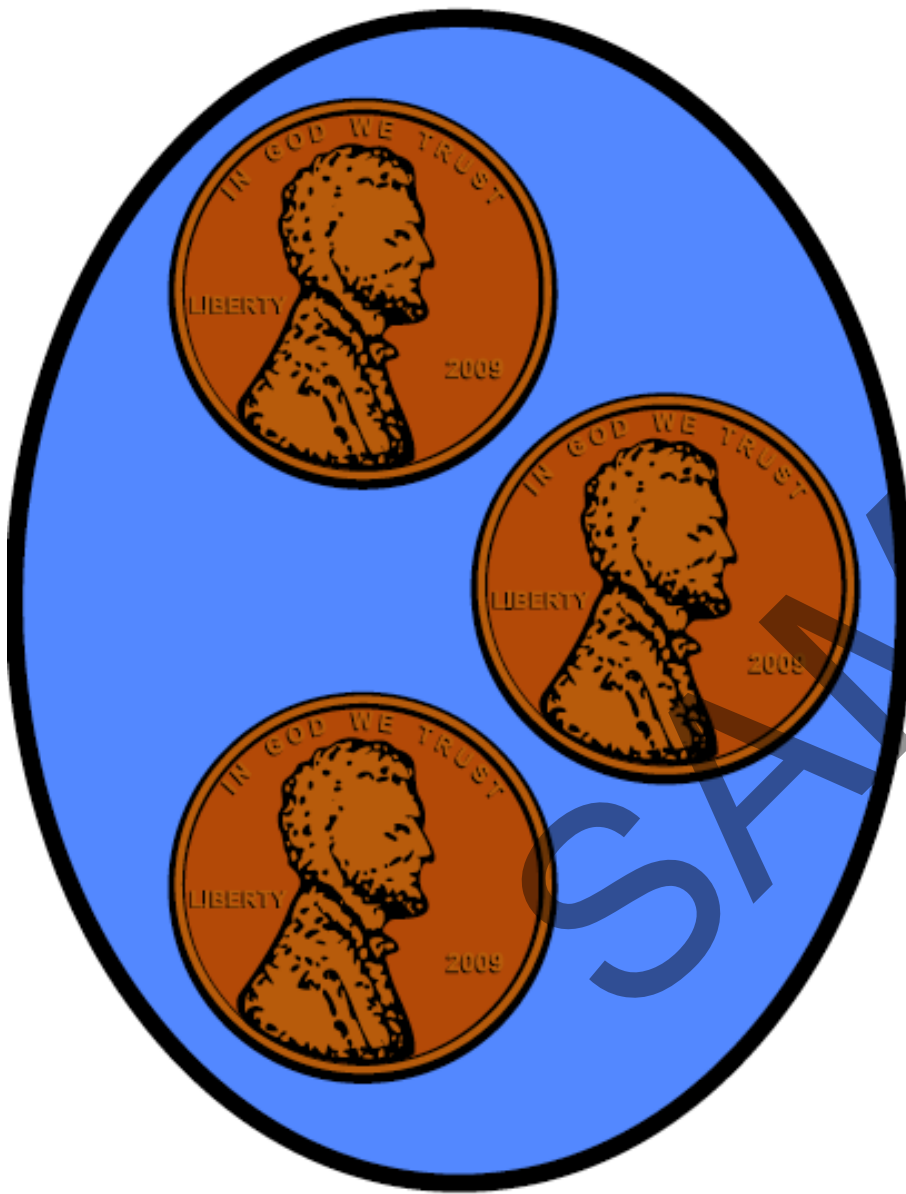
Instructions:

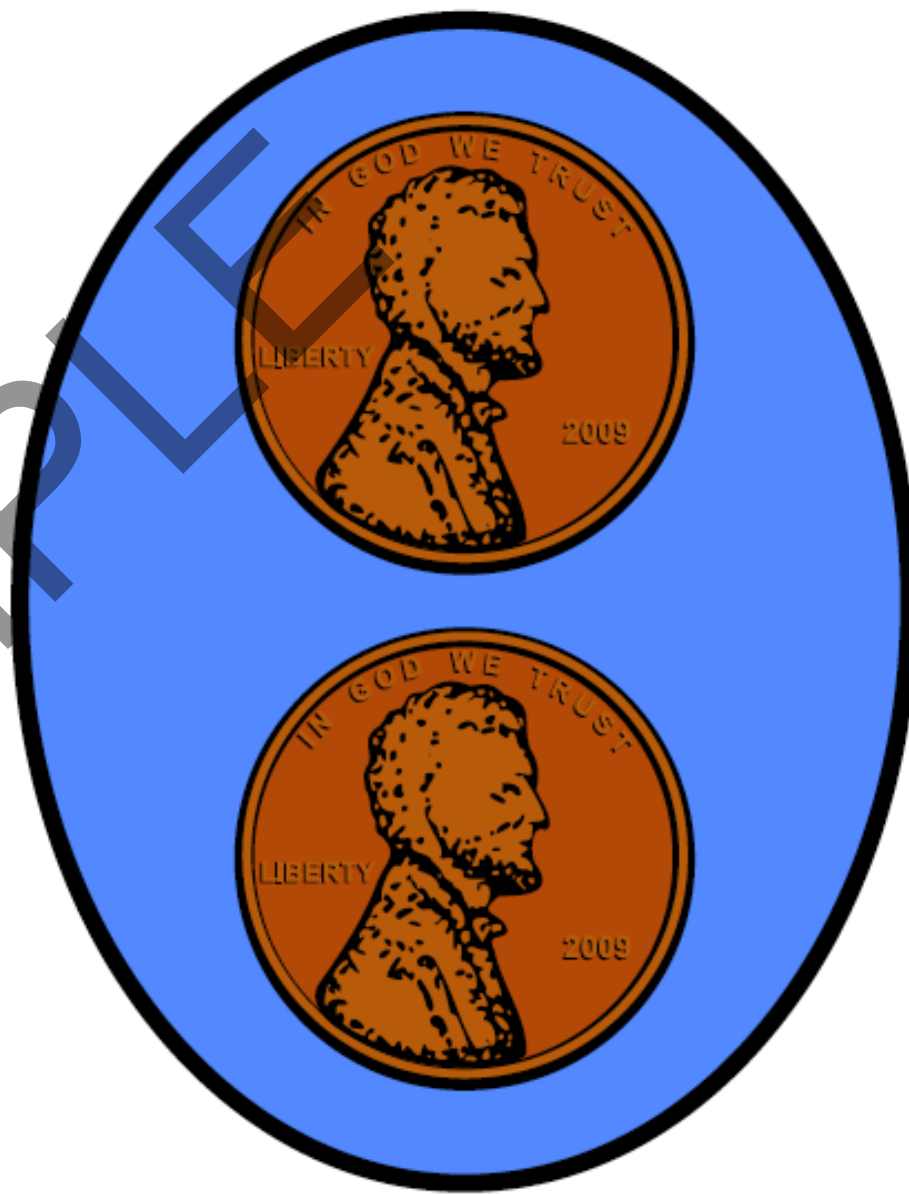
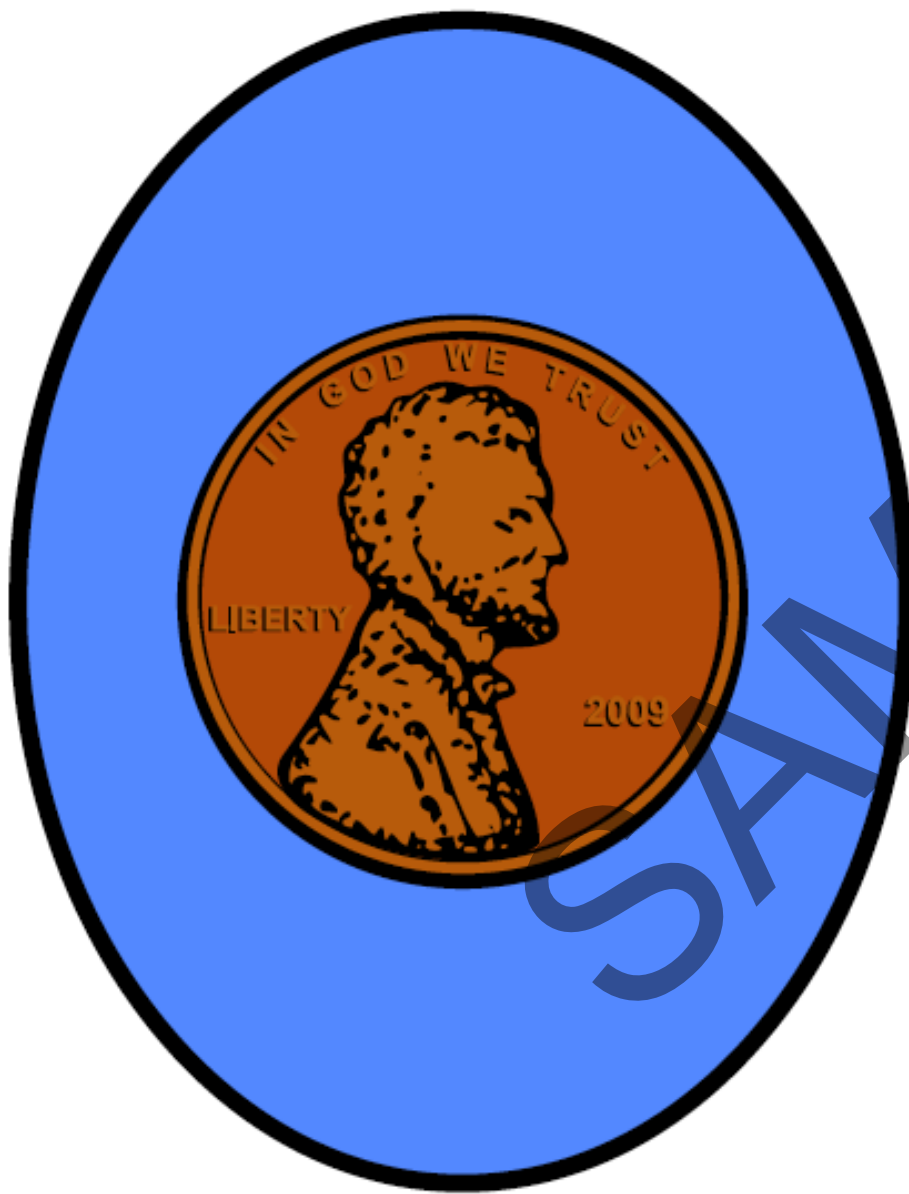
Print each page on 8½"x11" card stock, cut each oval out and laminate if desired. Attach a magnet strip or Velcro on of each oval for use on a magnetic or felt board. Start by using the penny cards along with the minus and equal signs to build penny subtraction equations. Gradually replace the penny cards with the matching number cards to build number line equations (i.e. begin by replacing the single red penny with the red numeral and go through the number sequence, then use a number card for the solution, finally use all number cards).

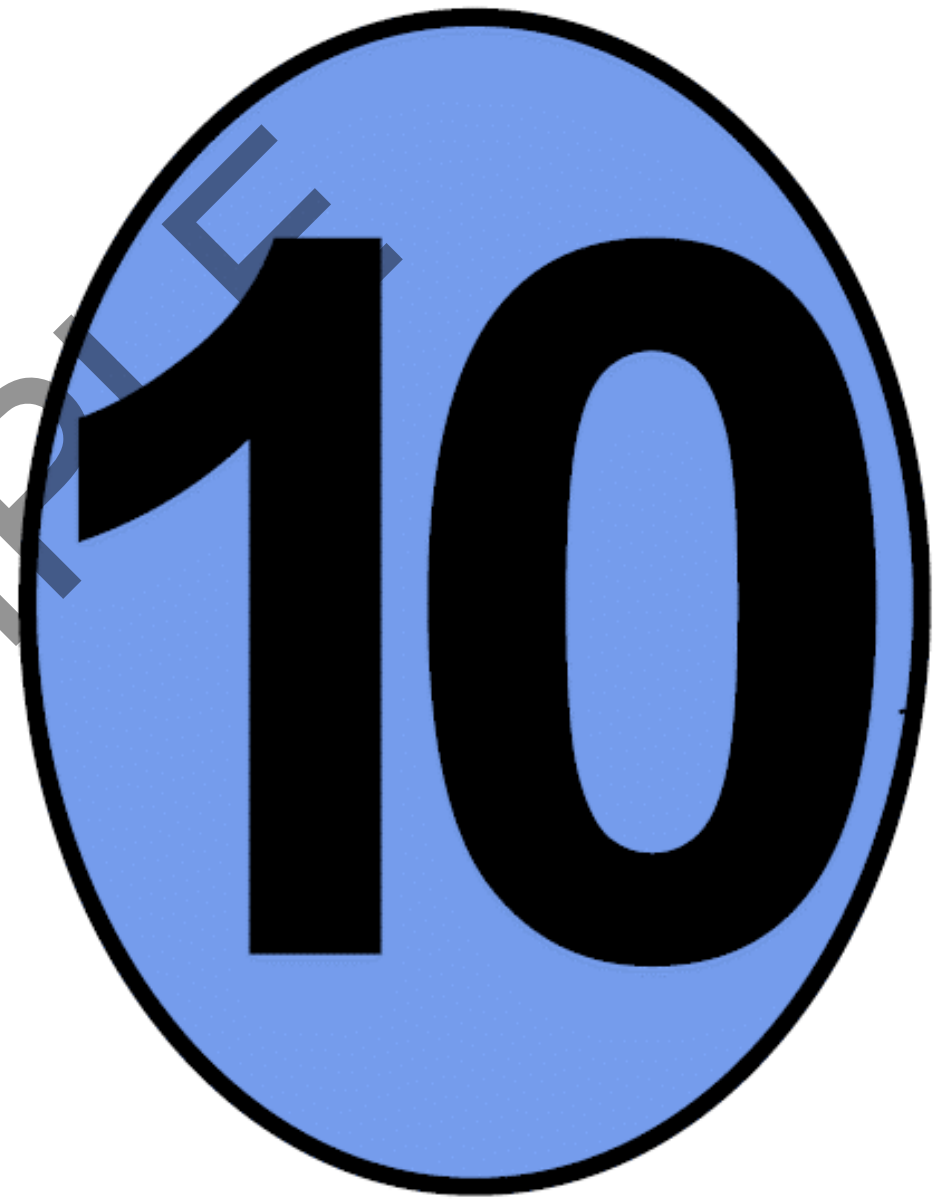
















Subtracting One

(Visual Aids #2)

Instructions:

Print red pocket parts on 8½"x11" transparencies, cut along dashed lines and tape four pieces together. Attach a magnet strip or Velcro at the upper corners and along the bottom edge of assembled pocket for use on a magnetic or felt board. Print penny pages on 8½"x11" card stock, cut each penny out and laminate if desired. Use pennies by counting each penny as it is dropped behind pocket transparency. Remove one penny at a time from the pocket and practice counting how many pennies are left in the pocket.



