

Match It

Grade 3

Lesson 305

Lesson Overview

Students play a bingo-type of game by representing collections of blocks, regrouping, and matching the collections to numbers on a game board.

Objectives

Thinking Skills: Students use sorting and organizational skills to organize blocks on a place mat. They also use mental math skills and pattern recognition to recognize when and how to regroup.

Mastery Skills: Students learn how to organize collections of blocks into hundreds, tens, and ones by regrouping when necessary. Students must regroup (pack the blocks) so that there are not more than 9 of any kind in a place.

Materials

Each pair of students needs:

- 1 set of "Match It" game cards
- 2 "Match It" game boards (one per student - make sure pairs playing together use different game boards)
- 2 Place mats
- 2 sets of Digit flip cards
- 3 blocks-of-100 (or more if available)

Class Demonstration

(15-20 minutes)

Begin by introducing the Place mats and Digit flip cards:

- Discuss the different parts (places) on the mat.
- Make sure that students know where to place blocks of each size.
- Have students place blocks of different sizes (no more than 9 of each size) on the place mat.
- Have students set the Digit flip cards to show the number of each size block represented on their place mat.

In order for students to learn how to regroup by packing as much as possible and to discover why it is necessary, have students:

- Place 1 block-of-100, 5 blocks-of-10, and 16 single blocks on their mat.
- Try to use the flip cards to represent the number of blocks of each size that they have on their place mat. Students will not be able to do this without packing the single blocks.
- Discuss why they must pack. (Teacher's note: Let students struggle with what to do in this instance. Students should realize on their own that they must pack the blocks in order to set the digits)
- Pack the blocks where possible.
- Represent the number of blocks remaining in each place with the Digit flip cards.

Introduce students to the game, "Match It." This game gives students the opportunity to practice the skills that they just explored by matching cards onto a game board, as in the game of bingo.

- Students will work in pairs to play this game.
- Each pair of students will need a set of blocks and a set of game cards.
- Each player will need his/her own set of Digit flip cards and a place mat.
- In order to play the game, students must:
 - Place the pile of game cards face down in front of them.
 - Take turns drawing a card from the deck.
 - Build blocks on the Place mat as specified on the game card and regroup in order to set one Digit flip card for each place value position on the mat. (Note: Students may choose to place the

blocks first as they are actually listed and then regroup (pack). Or, they may pack "in their head" and then place the blocks on the place mat. This is an excellent diagnostic tool to determine where students are in their thinking about this concept.)

- Look for that number on their game board. If they find that number, they will place an x on that number on their board.
- The first student to get 4 in a row (horizontally, vertically, or diagonally) wins the game.

Student Activity

(20 minutes)

Have students play the game Match It for as many "rounds" as time allows.

Closure

(10 minutes)

Students should come together as a whole class to discuss this activity.

- Ask each student who won a game to recite a number from their game board that they crossed out and say the blocks on the matching card.
- Have students share any challenges that they encountered when playing the game.
- Have students share what they learned about numbers on a place mat from playing this game.

Assessment

As students are playing the game, sit with each pair and observe how they are finding the appropriate number:

- Are the students placing the blocks as written on the card or are they able to regroup mentally?
- Do students regroup accurately?
- Are students able to find the appropriate number on their game card?

- How are students talking about the numbers?
- Do students easily recognize that no more than 9 of one size may be placed in one place on the mat?
- Can students accurately read and pronounce the number?

Extension

- Have students make up their own game cards and game boards for playing "Match It."
- Have students compare the numbers represented by the collections of blocks on the cards and put the cards in order from least to greatest.