Number Sort Directions

Materials Needed

- > 2 large strings tied in loops or 1 large Venn diagram drawn on chart paper per group
- 35 chips, labeled with the numbers 1-35, per group
- 1 deck of Number Sort Label Cards per group (page A-19)
- › Optional: 1 Number Sort Directions per group

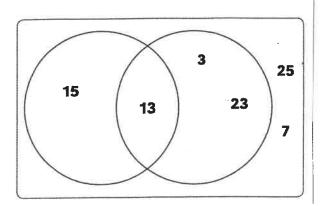
Directions

Goal: Guess the two sorting rules.

- Decide which team is Team 1. The other team is Team 2.
- Team 1 looks at the cards and chooses two labels, one for each ring of the diagram. Team 1 places each label facedown beside its correct ring and does not tell Team 2 what the labels are.
- Team 2 needs to guess the labels. It chooses a numbered chip and gives it to Team 1. Team 1 correctly places the numbered chip in the diagram.
- Play continues until Team 2 correctly guesses the labels.
- Team 2 must guess both labels at once. Team 2 should also explain its thinking when it makes a guess.
- If Team 2 guesses one label right and one label wrong, Team 1 just says, "No." Team 1 doesn't give any hints about which guess is right or wrong.
-) When Team 2 guesses the right label for each ring, Team 1 shows the labels.
- Have teams change roles and play another game.

Exit Question Choices

- You are teaching a friend how to play this game. How will you explain what to think about when you decide where to place a number?
- You are playing a game and this is how the diagram looks. What possible labels would you guess? Why?



Number Sort Label Cards

	
Less than 10	Greater than ten
Every digit in the ones place is the same	Every digit in the ones place is different
Has a 2 in the tens place	Has a 1 in the tens place
Greater than 20	Less than 20
The digit in the ones place is greater than the digit in the tens place	The digit in the tens place is greater than the digit in the ones place
Odd number	Even number

	2	3
4	5	6
7	8	9
10	///	12

25	26	27
28	29	30