

Number Line Assembly

Match or count colored pegs using printed cards and a counting jig.

Difficulty increases from Level 1 to Level 3.

Materials

- 1 storage box
- 3 Number Lines
- 2 small bins
- 14 clear plastic bags
- 30 yellow pegs
- 30 red pegs
- 21 Level 2 cards (blue border)
- 12 Level 3 cards (red border)



Procedure

Level 1: Match to Model

Setup: Set aside the box of cards and the bags. Place two Number Lines in the center of the work area. Use the third Number Line to create a model that students follow. Place one bin with yellow pegs and one bin with red pegs within reach of the two Number Lines.

- Place any number or combination of colored pegs in one Number Line to function as a model.
- Student assembles the remaining two Number Lines to match the prepared model, as pictured in (A).



(A)



(B)

Level 2: Count Pegs to Match Number Cards

Level 2 has two options. In Option A, students assemble three Number Lines to match three blue-bordered cards. In Option B, students match up to 12 cards and package the colored pegs in clear plastic bags.

Option A Setup: Select the blue-bordered cards and place them in the open snap box. Place three Number Lines in the center of the work area. Place the bins with the colored pegs to the right of the Number Lines.

- Put the top card in front of the Number Lines. (Note: The blue cards have two sides – one with numbers and words and the other with a matching illustration, as pictured in (B).)
- Put the correct number and color of pegs shown on the card in the Number Line.
- Place the card face up on the board, as pictured in (C).
- Repeat until all 3 Number Lines are complete.
- Students can stop here or disassemble the completed Number Lines and continue.

Option B Setup: Select 12 of the blue-bordered cards and place them in the open snap box. Place one Number Line in the center of the work area to use as a counting jig. Place the bins with the colored pegs to the right of the Number Line with the clear plastic bags nearby. Place the open storage box to the right of the bins or in the center, above the Number Line.



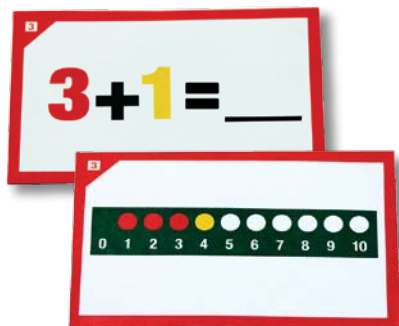
(C)

Quality Criteria

The number and color of pegs placed on a Number Line or in a bag, must match the card.

- Put the top card in the center of the work area.
- Put the card, plus the correct number/color of pegs shown on the card, into a clear plastic bag. Close the bag and put it in the storage box, as pictured in (E) on the reverse side. (Note: Students can use the Number Line as a counting jig, if necessary.)
- Continue until all the cards/bags are completed.

(Note: The zero card may confuse some students. Explain that zero means the absence of any pegs, i.e., don't put any pegs in the bag or on the Number Line.)



(D)

Level 3: Addition and Subtraction Problems

Setup: Place the 12 red-bordered cards in the open snap box. Place one Number Line in the center of the work area to use as a counting jig. Place the bins with the colored pegs to the right of the Number Line with the clear plastic bags nearby. Place the open storage box to the right of the bins or in the center above the Number Line.

- Put the top card in the center of the work area. (Note: The red cards have two sides – one with a addition or subtraction problem and the other showing an illustration of the problem, as pictured in (D).)
- Put the card, plus the correct number/color of pegs to answer the problem shown on the card, into a clear plastic bag. Close the bag and put it in the storage box as pictured in (E). (Note: Students can use the Number Line as a counting jig, if necessary.)
- Continue until all the cards/bags are completed.

(Note: The zero card may confuse some students. Explain that zero means the absence of any pegs, i.e., don't put any pegs in the bag or on the Number Line).



(E)



Disassembly

The task will need to be disassembled before it is administered again.

Setup

Place bins and supplies as in the assembly task.

Procedure - All Levels

- Remove any pegs from the Number Lines and place them in the correct bin according to color.
- To disassemble Level 3, remove pegs from the plastic bags and place them in the correct bin according to color. Remove the cards from the bags and place them in the snap box. Place the bags neatly in the storage box.