

Build It Two Ways

Teacher-led place-value models with paper clips and a hundred-square.

1.2.B “use concrete and pictorial models to compose and decompose numbers up to 120 in more than one way as so many hundreds, so many tens, and so many ones;”

NAME _____

DATE _____

Teacher: this page is run aloud. The script and answers are on the guide page.

1 CIRCLE NUMBER _____

a	33	34	43
b	160	16	106
c	120	102	112

2 TRADE GROUPS _____

34	
106	
120	

HOW TO RUN THIS PAGE

Before the lesson, draw a 10-by-10 square array on a sheet of paper to represent 100, and arrange paper clips into groups of 10 and single clips. Students connect each concrete or pictorial model to a number, then record traded groups using hundreds, tens, and ones codes.

Students never read directions on this sheet. Read each part's script aloud, then each prompt, giving think time before students mark.

PART 1 • CIRCLE NUMBER

SAY “A group of 10 paper clips is one ten. The paper square with 100 little boxes is one hundred. For each row, I will build a number and read the choices. Which number matches my model? Circle it.”

ROW	SAY	STUDENTS CIRCLE
a	I made 3 groups of 10 paper clips and 4 single clips. The choices are 33, 34, and 43. Which number matches my model?	34
b	I made 1 hundred-square, no groups of 10, and 6 single clips. The choices are 160, 16, and 106. Which number matches my model?	106
c	I made 1 hundred-square, 2 groups of 10 paper clips, and no single clips. The choices are 120, 102, and 112. Which number matches my model?	120

PART 2 • TRADE GROUPS

SAY “T means a group of 10, and O means one single clip. For example, 2 groups of 10 and 5 singles can be written 2T5O. For each number, I will show a traded model. Can you write its T and O code in the box?”

- Box 1 (beside 34): **2T14O**
- Box 2 (beside 106): **10T6O**
- Box 3 (beside 120): **12T0O**

WHAT TO ACCEPT

Circle answers are 34, 106, and 120. For the boxes, show 34 as 2 tens and 14 ones, 106 as 10 tens and 6 ones, and 120 as 12 tens and 0 ones. Accept equivalent clear notation such as 2 tens 14 ones.