Investigation 1: Extending the Number System ACE #49-52

For Exercises 49-52, find the missing part for each chip problem. Write a number sentence for each problem.

	Start With	Rule	End With	Number Sentence
19.	•••	Add 5	100	
io.		Subtract 3	=	100
1.	0000			=
2.	100	Subtract 3	0000	

In the chip board model, the black circles ("Bs") stand for a black chip with a value of positive 1, and the red circles ("Rs") stand for a red chip with value negative 1. So, 1B + 1R = 0, 3B + 3R = 0 etc.

- 49. Start with +3 and add -5. We can think of each pair of "B + R" as 1 + (-1) = 0. Since there are 2 more red chips we end with two red chips for a value of -2: +3 + -5 = -2.
- 50. Start with -1 + 2 and subtract (-3). Since there are not enough reds to subtract three reds, we could alter the original representation from -1 + 2 to, for example, -3 + 4 by adding two more red chips and two more black chips. Notice that this change does not actually change the value of the board, but it does allow us to take away three reds (subtract -3). So now we have three red chips and 4 black chips, and when we take away three red chips, the end result is four black chips for a value of +4: -1 + 2 (-3) = 4.

Notice that after the "3R" has been subtracted, the net result is the addition of 3B to the board. This helps explain why subtracting -3 is the same as adding +3.

51. Start with -5 and "do something" so that we end with -2. This could be -5 add 3, or "add three blacks chips." Or students might think of this as-5 - (-3), which would be "take away three reds." The number sentence would be: -5 - (-3) = -2 or -5 + 3 = -2.

Notice that again, we see that adding +3 gives the same result as subtracting -3.

52. There are several possible answers, but here's the general idea: We are starting with some unknown value, then subtracting positive 3 (taking away three black chips) to end with -4. We must have started with -4 + 3 = -1 or some combination of chips that makes a value of -1 (such as one red chip, two black chips and 3 reds, four reds and three blacks, and so on). A possible number sentence would be: -1 - 3 = -4.

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**KJ Lindholm-Leary** 

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