Whole Number Division Strategies

There are 2 different types of division problems.

- Partitive Division: You have a certain amount that you want to share equally among a number of groups. Looking for how much in each group? EXAMPLE: The bag has a total of 968 jelly beans. They are shared equally among 8 friends. How many jelly beans will each person get? (8 x _ = 968)
- 2) <u>Measurement Division</u>: You have a certain amount in each group. How many groups?

EXAMPLE: The bag has a total of 968 jelly beans. Each person will get 121 jelly beans. How many people can equally share the jelly beans? (x 121 = 968)

Direct Modeling w/ Base-10 Blocks				Missing-Factor Strategy
92÷4=				7 groups of will get me to 301?
20	20	20	20	301÷7=
				1) I know7x10=70, SO <mark>(7x100)=700</mark> TOO BIG
				2) Half of 700 would be 350 (7x50)
2	2	2	2 0	STILL TOO BIG
1	1	1	1	3) 7x40=280
0	8	Ð	8	TOO SMALL. Need 21 more (7x3)
23	23	23	23	4) (7x40) +(7x3)=301
Group 1	Group 2	Group 3	Group 4	280 + 21 =301
Big 7 (This is an organizational tool :				Multiplying Up Strategy (similar to
NOI a strategy) The numbers on the side indicate the quantity of				Missing Factor Strategy)
the divisor being subtracted from the dividend.				381÷/2=
672÷5= 5 672				3 x72= 216
	- 500	100		1x72= <u>+72</u>
	172			288
	- 100	20		1x72= <u>+ 72</u>
	72			360
	- 50	10		+ remainder
	22			381
	- 20	4		
	R 2	134 R2	2	ANSWER: 5 R 51