## Whole Number Division Strategies

## There are 2 different types of division problems．

1）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）Measurement Division：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？
（ $\times 121=968$ ）

| Direct Modeling w／Base－10 Blocks |  |  |  | Missing－Factor Strategy |
| :---: | :---: | :---: | :---: | :---: |
| 92：4＝ |  |  |  | $\begin{aligned} & 7 \text { groups of __ will get me to } 301 \text { ? } \\ & 301 \div 7= \end{aligned}$ |
| 20 | 20 | 20 | 20 |  |
| 莫电 | 电电 | 里电 |  | 1）I know．．． $7 \times 10=70$, SO．．（ $7 \times 100$ ）$=700$ TOO BIG |
| $0^{2}$ | $0_{0}^{2}$ | $0_{0}^{2}$ | $0_{0}^{2}$ | 2）Half of 700 would be 350 （ $7 \times 50$ ） STILL TOO BIG |
| 1 | 1 | 1 | 1 | 3） $7 \times 40=280$ |
| － | － | － | － | TOO SMALL．Need 21 more（7x3） |
| 23 | 23 | 23 | 23 | 4）$(7 \times 40)+(7 \times 3)=301$ |
| Group 1 | Group 2 | Group 3 | Group 4 | $280+21=301$ <br> Answer： 43 |
| Big 7 （This is an organizational tool ： NOT a strategy） |  |  |  | Multiplying Up Strategy（similar to Missing Factor Strategy）$381 \div 72=$ |
| The numbers on the side indicate the quantity of the divisor being subtracted from the dividend． |  |  |  |  |
| $672 \div 5=$ | $5 \longdiv { 6 7 2 }$ |  |  | $3 \times 72=216$ |
|  | － 500 | 100 |  | $1 \times 72=+72$ |
|  | 172 |  |  | 288 |
|  | －100 | 20 |  | $1 \times 72=+72$ |
|  | 72 |  |  | 360 |
|  | －50 | 10 |  | $+\square$ remainder |
|  | 22 |  |  | 381 |
|  | －20 | 4 |  |  |
|  | R 2 | 134 R 2 |  | ANSWER： 5 R 51 |

