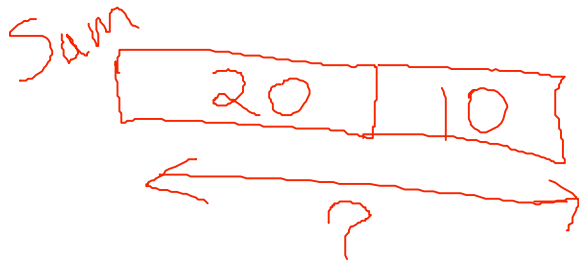


Word Problems

Part One: Whole model for addition
or subtraction

ex) Sam has 20 marbles and adds
10 marbles



ex) There are 30 red and blue marbles
20 were red marbles. How many blue
marbles were there?



Part two: Comparison model for addition or subtraction

- 2 or more quantities are compared
- We draw 2 bars, one longer than the other to represent the difference

red 

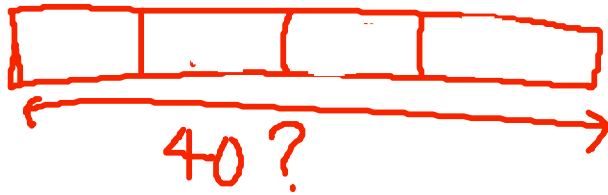
blue 

ex) A bag has red and blue marbles. There are 80 blue marbles
There are 120 more red marbles than blue.

Part Three:

Part-Whole Model for Multiplication and Division:

The total is represented by a long bar which can be divided into equal parts
ex There are 4 jars. Each has 10 marbles.
Find the total.



Part Four: Comparison Model of Mult.
and Div.

- in this model two quantities are compared
- we are told how many times one quan. is to another
- the smaller quantity is the unit

ex) There are 4 times as many blue marbles in a jar as red marbles. There are 10 red marbles. How many blue?

