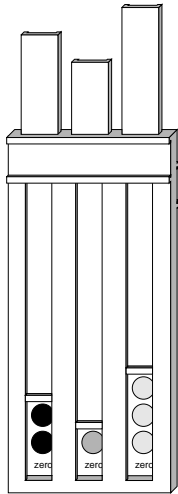


NON-PLACE VALUE

AUDITORY MEMORY



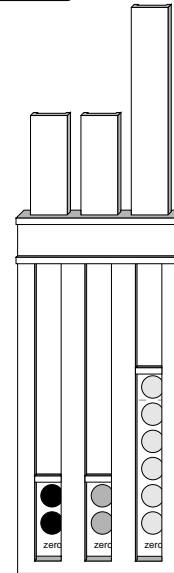
"After I count to three, show me 1 orange circle, 3 yellow circles and 2 red circles ... one, two, three."

"After I count to three, show me 5 yellow circles, flip to the back and show a 4 on the left and a 7 in the middle, flip to the front and add 2 more red circles ... one, two, three."

(I think I'd struggle with that one.)

NON-PLACE VALUE

RATIO

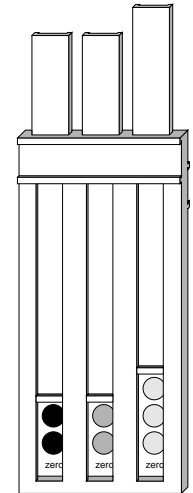


"Show me red:orange:yellow in a ratio of 2:2:6."

"Show me the same ratio in a simpler form?" (1:1:3)

"Show red:orange:yellow in a ration of 1:1:2."

"Show the same ratiion in at least three different ways." (2:2:4, 3:3:6, 4:4:8)



NON-PLACE VALUE

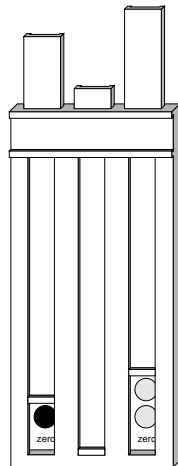
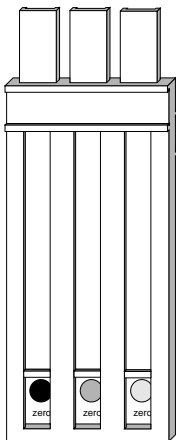
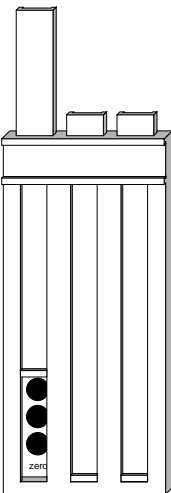
PROBLEM SOLVING



"Show me three circles any way you like."

"Show me three circles in a different way."

"Now show me three circles in a another way."



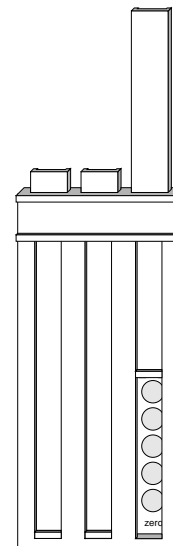
"How many different ways can you show me three circles?"

"Using your Number Cruncher, coloured pencils and paper, work out how many different ways you can show three circles."

The Number Cruncher can be used by students to work out the answers to simple problems e.g. 'If I had seven Smarties and ate three, how many would I have left?'

NON-PLACE VALUE

CONSERVATION OF NUMBER



Students count aloud and show one yellow circle for every counter dropped into a cup.

The teacher shakes up the counters and places the cup upside down on a desk.

The teacher asks the students to 'close' their Number Cruncher and then show a yellow circle for each counter they think is under the cup.

The counters are then counted, the answers are checked and discussed.

The exercise is repeated with a different number of counters.

