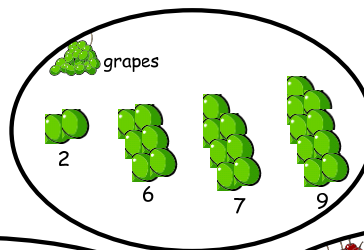
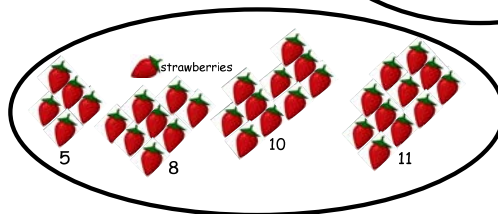


Fruit Salad

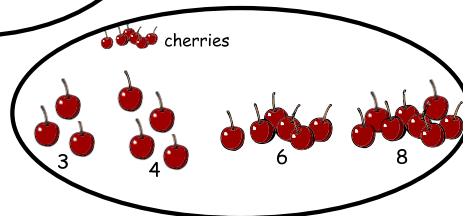
Zara made a bowl of fruit salad using grapes, strawberries and cherries



She used 2, 6, 7, or 9 grapes



She used 5, 8, 10 or 11 strawberries



She used 3, 4, 6 or 8 cherries

- Her fruit salad had 22 pieces of fruit in it altogether. How many pieces of each fruit did she put in? Find different ways to do it.
- She made another fruit salad with 18 pieces of fruit. Find different ways to do it.

Learning and Teaching Objectives

- Have a system for finding all possibilities
- Organise the recording of possibilities (ordered list, table)
- Use a method of tracking what has been included and what has not
- Have a way of deciding when all possibilities have been found

Fruit Salad Solution

22 pieces of fruit

grapes	strawberries	cherries	total
9	11	Not possible	X
9	10	3	22
9	8	Not possible	X
9	5	8	22
7	11	4	22
7	10	Not possible	X
7	8	Not possible	X
7	5	Not possible	X
6	11	Not possible	X
6	10	6	22
6	8	8	22
6	5	Not possible	X
2	11	Not possible	X
2	10	Not possible	X
2	8	Not possible	X
2	5	Not possible	X

18 pieces of fruit

grapes	strawberries	cherries	total
9	11	Not possible	X
9	10	Not possible	X
9	8	Not possible	X
9	5	4	18
7	11	Not possible	X
7	10	Not possible	X
7	8	3	18
7	5	6	18
6	11	Not possible	X
6	10	Not possible	X
6	8	4	18
6	5	Not possible	X
2	11	Not possible	X
2	10	6	18
2	8	8	18
2	5	Not possible	X