Systematic Listing

1

Three cards show 2, 5 and 7. List all the 3 digit numbers you can make using each card once.

2	5	7	2	7	5

Fix the first one. Change the rest in order.

How many? _____

2

Three cards show 1, 4 and 8. List all the 3 digit numbers you can make using each card once.

1	4	8			

How many? _____

3

Three cards show 3, 6 and 9. List all the 3 digit numbers you can make using each card once.

3	6	9			

How many? _____

4

Ava (A), Bea (B) and Cal (C) line up for a photo. List all the orders they can stand in.

A	B	C			

How many? _____

5

A meal deal is one main and one side.
Mains: pizza (P), curry (C), burger (B).
Sides: fries (F), salad (S).
List all the meal deals.

How many? _____

6

Four cards show 1, 2, 3 and 4. List all the 2 digit numbers you can make using two of the cards.

How many? _____

7

Two of Dan (D), Eve (E), Fay (F) and Gus (G) are picked for a quiz team. List all the possible pairs.

How many? _____

8

Three cards show 0, 3 and 8. List all the 3 digit numbers you can make using each card once. A number cannot start with 0.

How many? _____

Systematic Listing *further practice*

9

Kim chooses two different fillings for a sandwich from ham (H), cheese (C), egg (E), tuna (T) and salad (S).
List all the pairs of fillings she could choose.

How many? _____

10

A school dinner is one starter, one main and one pudding.
Starters: soup (S), melon (M).
Mains: fish (F), pie (P).
Puddings: cake (C), jelly (J).
List all the dinners.

How many? _____

11

Four cards show 2, 3, 5 and 6.
List all the <u>even</u> 2 digit numbers you can make using two of the cards.

How many? _____

12

Lily lists the 3 digit numbers she can make using each of the cards 1, 5 and 8 once. Here is her list.
Which numbers has she missed?

158 581 815 185

_____

Answer _____

13

Jo has a 10p coin, a 20p coin and a 50p coin. List all the amounts of money she can make using one or more of her coins.

How many? _____

14

Ava (A), Bo (B), Cy (C) and Di (D) stand in a line. Ava stands at the front.
List all the orders they can stand in.

How many? _____

15

Adult tickets cost £6 and child tickets cost £4. A group spends exactly £36 on tickets. The group has at least one adult and at least one child.
List all the possible groups.

_____

How many? _____

16

Ella buys two tins of paint in different colours. She chooses from red, blue, green and yellow.
She says there are 12 ways to choose, because she counts red and blue, and blue and red. Is she right? Explain.

_____

Answer _____