

# Systematic Listing

**1**

A meal is one main and one side.  
List all the meals.

Mains    **P**    **C**    **B**  
             pizza    curry    burger

Sides    **F**    **S**  
             fries    salad

|   |   |   |   |
|---|---|---|---|
| P | F | P | S |
| C | F | C | S |
| B | F | B | S |

How many? 6

**2**

A meal is one main and one side.  
List all the meals.

Mains    **S**    **F**  
             soup    fish

Sides    **R**    **C**    **P**  
             rice    chips    peas

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| S | R | S | C | S | P |
| F | R | F | C | F | P |

How many? 6

**3**

List all the 3 digit numbers you can make. Use each card once.

**2**   **5**   **7**

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 2 | 5 | 7 | 2 | 7 | 5 |
| 5 | 2 | 7 | 5 | 7 | 2 |
| 7 | 2 | 5 | 7 | 5 | 2 |

How many? 6

**4**

List all the 3 digit numbers you can make. Use each card once.

**1**   **4**   **8**

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 1 | 4 | 8 | 1 | 8 | 4 |
| 4 | 1 | 8 | 4 | 8 | 1 |
| 8 | 1 | 4 | 8 | 4 | 1 |

How many? 6

**5**

A meal is one main and one side.  
List all the meals.

Mains    **C**    **L**    **N**  
             chicken    lasagne    noodles

Sides    **B**    **S**  
             beans    salad

|   |   |   |   |
|---|---|---|---|
| C | B | C | S |
| L | B | L | S |
| N | B | N | S |

How many? 6

**6**

List all the 3 digit numbers you can make. Use each card once.

**3**   **6**   **9**

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 3 | 6 | 9 | 3 | 9 | 6 |
| 6 | 3 | 9 | 6 | 9 | 3 |
| 9 | 3 | 6 | 9 | 6 | 3 |

How many? 6

**7**

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

**A**   **B**   **C**

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| A | B | C | A | C | B |
| B | A | C | B | C | A |
| C | A | B | C | B | A |

How many? 6

**8**

Kai lists the 3 digit numbers he can make with these cards. He has missed two. Find them.

**1**   **4**   **6**

Kai: 614 146 416 164

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 1 | 4 | 6 | 1 | 6 | 4 |
| 4 | 1 | 6 | 4 | 6 | 1 |
| 6 | 1 | 4 | 6 | 4 | 1 |

Missed: 461 and 641

Systematic Listing *further practice*

ANSWERS

9 

List all the 3 digit numbers you can make. Use each card once.

1 3 8

1 3 8    1 8 3  
3 1 8    3 8 1  
8 1 3    8 3 1

How many? 6

10 

A lunch is one sandwich and one drink. List all the lunches.

Sandwiches C H J E  
              cheese ham jam egg  
Drinks M W  
              milk water

C M    C W  
H M    H W  
J M    J W  
E M    E W

How many? 8

11 

Raj (R), Sol (S) and Tom (T) run a race. List all the orders they can finish in.

R S T

R S T    R T S  
S R T    S T R  
T R S    T S R

How many? 6

12 

List all the 2 digit numbers you can make. Use two of the cards.

4 6 9

4 6    4 9  
6 4    6 9  
9 4    9 6

How many? 6

13 

A sandwich is one bread and one filling. List all the sandwiches.

Breads W B S  
              white brown seeded  
Fillings C H E  
              cheese ham egg

WC, WH, WE

BC, BH, BE

SC, SH, SE

How many? 9

14 

List all the 3 digit numbers you can make. Use each card once. How many are more than 500?

2 5 8

258, 285

528, 582

825, 852

More than 500: 4

15 

A dinner is one main, one pudding and one drink. List all the dinners.

Mains P F  
              pie fish  
Puddings C J  
              cake jelly  
Drinks M W  
              milk water

PCM, PCW, PJM, PJW

FCM, FCW, FJM, FJW

How many? 8

16 

A meal is one main and one side. Tom says there are 5 meals. What has he done wrong?

Mains P C  
              pasta curry  
Sides F S R  
              fries salad rice

Tom: PF PS CF CS CR

Tom has missed  
PR, pasta and rice.

There are 6 meals.