**Date:   Thursday 28th January 2021**

**Learning Objective:**

- To find how many ways by working systematically.

**Practise:**

1.

Jack has 3 T-shirts and 4 pairs of trousers. Complete the table to show how many different outfits he can make.

| T-shirt | Trousers |
| --- | --- |
| Blue | Blue |
| Blue | Dark blue |
| Blue | Orange |
| Blue | Green |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

2.

Alex has 4 shape cards and 3 number cards.

She chooses a shape card and a number card. List all the possible ways she could do this.

**Reason:**

3.

**Kyle says he can have 18 different combinations from the menu.**

| Main | Side |
| --- | --- |
| Steak pie | Chips |
| Fish | Peas |
| Pizza | Beans |
| Burger | Salad |

**Is he correct? Prove it.**

**Problem Solve:**

4.

Eva chooses a snack and a drink.

What could she have chosen?
How many different possibilities are there?

____ × ____ = ____

There are ____ possibilities.

How many of the ways contain an apple?

5.

Jack has some jumpers and pairs of trousers.
He can make 15 different outfits.
How many jumpers could he have and how many pairs of trousers could he have?