



Name: _____



- a) For breakfast, Kian can eat toast or porridge and drink either orange or pineapple juice.
Write down the possible combinations that Kian can have for breakfast.

TO TPi PoO PoPi

- b) Three people are picked from a group of mixed group of men and women.
Write down the possible combinations that could be chosen.

MMM MMW MWW WWW

- c) A restaurant serves chicken, gammon or beef with either roast potatoes, mash or dauphinoise.
Write down the possible combinations that the restaurant can serve.

CR CM CD GR GM GD BR BM BD

- d) Jack and Ken buy a sandwich. The choice of sandwiches available are either Ham, Cheese or Beef and can be served with salad, chips or new potatoes. Write the possible combinations of sandwich and accompaniment.

HS HC HN CS CC CN BS BC BN

- e) The digits 1,2,3 and 4 can be written in a number of ways?
Use the space below to list the combinations and state how many combinations there are.

1234 1243 1324 1342 1423 1432
2134 2143 2314 2341 2413 2431
3124 3142 3214 3241 3412 3421
4123 4132 4213 4231 4312 4321

Number of combinations = **24**

- f) The digits 2,4,6 and 7 can be written in a number of ways?
Use the space below to list the combinations and state how many odd numbers can be created.

2467 2476 2647 2674 2746 2764
4267 4276 4627 4672 4726 4762
6247 6274 6427 6472 6724 6742
7246 7264 7426 7462 7624 7642

Number of odd numbers = **6**

- g) By choosing two of the digits 2,4,5 and 6, lots of two digit numbers can be created?
Use the space below to list the combinations and state how even number combinations there are.

24 25 26 42 45 46
52 54 56 62 64 65

Number of even numbers = **8**

Exam question:

Here are four tiles. Each tile has a number on it.
They can be placed down in any order.
How many different **even** numbers can be made?



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