

Workcard

cd41w4

Level 4

Strand: Chance and Data Substrand: Understanding chance

The drinks Machine

You and a friend visit a drinks machine. The available drinks are shown below.

Cola
Orange
lemonade
Water

You choose to have cola and your friend has lemonade. This is one possible combination of drinks.

List all the possible drinks combinations by copying and completing the table below.

Me	Friend
Cola	lemonade

Another drinks machine offers five drinks shown below.

Cola
Orange
Lemonade
water
Chocolate

How many possible drinks combinations are now possible? Make a table to list all the possibilities.

Can you find a rule to work out the possible combinations of drinks from a machine offering any number of drinks. Explain the rule.

Extension: **You and two** friends visit a drinks machine offering **three** drinks. Draw a picture to show a possible drinks machine.

Show all the combinations that are possible for you and your two friends to choose using a tree diagram. Your teacher will help you with the tree diagram.

Reflection: How well did you do at this activity?

Write down three new things you have learnt.