# 3-6: REMOTE MATHS
EDITION 13

PROBABILITY AND STATISTICS - WARM UPS

Mathematical language: chance, data, likelihood, relationship, frequency, most, tally, representation.

TASK 1: ROCK, PAPER, SCISSORS

In this warm-up task you and a family member will play 'rock, paper, scissors' to see which move is most likely the winning move.

- Play 10 games of 'rock, paper, scissors' with a family member and record the winning moves.
- Based on your data, which move (rock, paper or scissors) is most likely the winning move?
- Play 10 more games and record the winning moves.
- Is your data the same as the first time? Why or why not?

Scissors
beats paper

Rock
beats scissors

Paper
beats rock
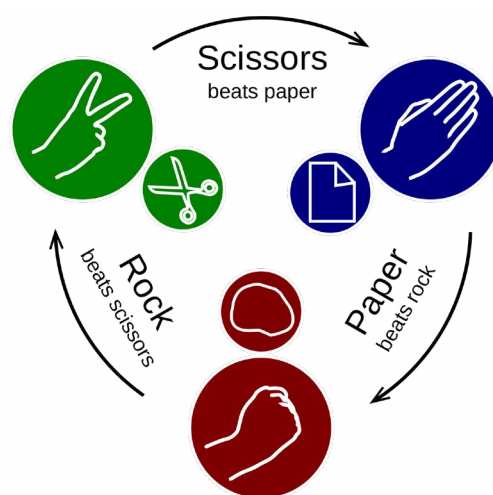
TASK 2: LIKELIHOOD OF EVENTS

Rank these events below from least likely to most likely to occur.

You will see a dog	It will be Monday tomorrow
You will go for a swim at the beach	It will be midday at sometime today
An elephant will grow wings and fly	It will rain today
You will eat something sweet	A monkey will knock on your front door
You will go to the movies	You will wear red
It will snow	You will have pizza for dinner

TASK 3: PLAYING WITH VENN DIAGRAMS

Venn diagrams show the relationship between things. Create a Venn diagram about any topic you like. Here is an example showing the relationship between four-legged animals and farm animals:

• Create your own Venn diagram on a topic of your choice.

Four-legged animals   Farm animals

Zebra   Horses   Chicken

Dinosaur   Ducks
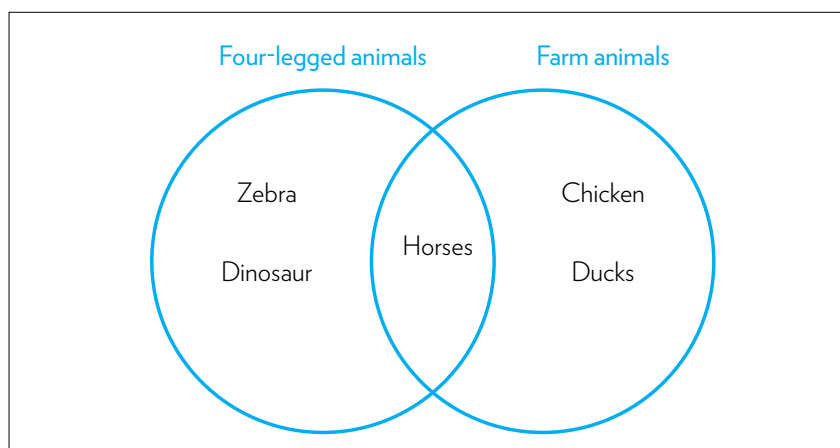
TASK 4: NAMES AND LETTER FREQUENCY

Write down the names of all your family members. Start with the people who are living with you in your home. Do not include last names.

• Record a tally of each letter used in each person's name.
• Create a visual representation of the frequency of each letter
• Which letter is most common in your family's names?
• Add in the names of family members who are not living with you.
• Now write down five friends' names. Find the frequency of the letters used in their names.

TASK 5: WHAT IS THIS STORY ABOUT?

This pie graph is missing its labels. We know that it was about a child's day.

• What could the graph represent?
• Label each section of the graph.
• Provide a title for the graph.
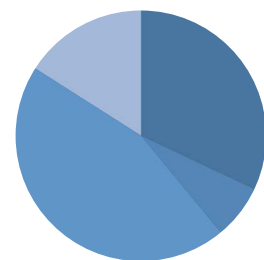
Look out for more tasks next week!