Aunty Rose's Balcony

Aunty Rose lives in an apartment and so does not have a garden. However, she likes to grow flowers in pots. These are the potted flowers that she has at the moment.

She wants to give one to her friend, Daisy, and asks her to select one. Since Daisy cannot decide on the colour, Aunty Rose suggests that she pick one without looking.

Work with your partner. Put counters marked with the colours of the flowers in a bag.

Imagine you are Daisy and you get 3 chances to pick. Make a prediction: what colours are likely to come out on each of your turns? Don't forget to put your counter back in the bag each time before you pick again.

For the task below, think how you can use words to express this chance? Can you use numbers?

What is the chance that Daisy will select:

A blue flower? _____

A red flower? _____

A yellow flower? _____

A pink flower? _____

A white flower? _____

What is the rule for expressing the chances?

Daisy selects a yellow flower but unfortunately it is showing signs of withering. She selects another flower (again without looking!).

What are the chances now that she will select:

A blue flower? _____

A red flower? _____

A yellow flower? _____

A pink flower? _____

A white flower? _____

Do Daisy's chances of getting a red, blue or pink flower change the second time she selects a pot? Can you give a convincing reason why this is so?

Aunty Rose also has some tree seedlings in her greenhouse. She has holly, ash and willow. She tells Daisy that she is twice as likely to pick an ash as a willow, but she has only a one in ten chance of picking a holly tree.

Can you predict how many baby trees Aunty Rose might have in total and how many of each tree?

Can you work out other numbers that could also be correct?