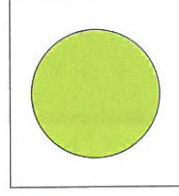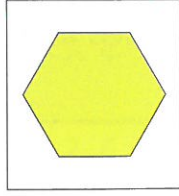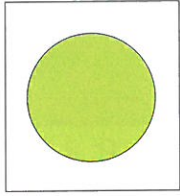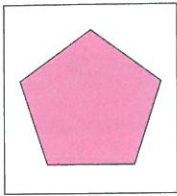# Chance predictions

Courtney has 5 cards with 2D shapes drawn on them. She is going to put them in a bag and will get her friend to pick one out.
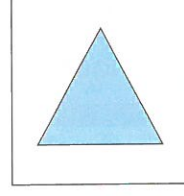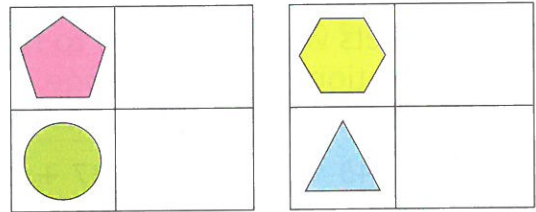
9 Predict the likelihood of each shape card being selected as her first pick.

Record each likelihood as a fraction.

| a $\frac{\square}{5}$	b $\frac{\square}{5}$	c $\frac{\square}{5}$	d $\frac{\square}{5}$

10 **Experiment**

a Make a set of cards like the ones above.

b Place your cards in a bag and make 20 draws using all 5 cards each time.

c Use tally marks ( ) to record your results.

11 Explain how your experiment results compare to your predictions in Exercise 1.

Jimmy has bought 100 rainbow ball lollies for his party. He put his hand in his bag and pulled out the following sample of 10 lollies.

R B B R B
R P B P B
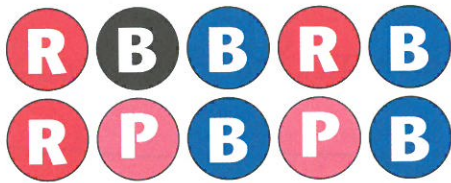
12 Use the sample above to predict how many lollies of each colour were in the bag.

a Red _____ **b** Blue _____ **c** Pink _____ **d** Black _____

13 If there was a bag of 500 lollies and Jimmy pulled out the same 10 lollies, how many of each colour do you think there would be in the bag?

a Red _____ **b** Blue _____ **c** Pink _____ **d** Black _____

Reasoning, Understanding
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