CHANCE

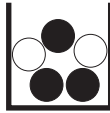**1.** Which of the following events is **more likely** to happen.

(a) **A** Throwing heads on a coin
B Rolling a 6 on a die

(b) **A** Choosing a white ball from this box
B Choosing a black ball from this box

(c) **A** Choosing an odd number from the list below
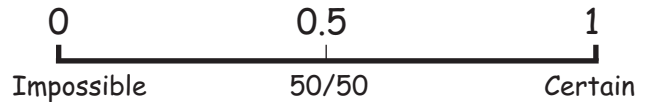**B** Choosing an even number from the list below

1 2 3 4 5 6 7

2. List the following odds (**A-E**) in order from **least likely** to **most likely**.

A 50-50 chance
B 1 in 4 chance
C Odds on
D Buckley's chance
E A certainty

Least likely

Most likely

3. Rate the chance of the following events occurring using the scale of 0 - 1 as shown below.

0   0.5   1

Impossible   50/50   Certain
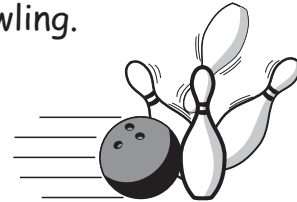
(a) Tossing tails on a coin.
(b) You throwing a dart and scoring a 'bulls-eye'.

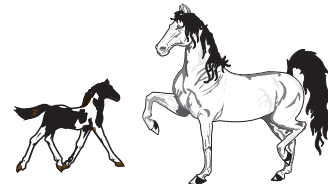(c) You throwing a dart and hitting anywhere on the dartboard.
(d) You waking up before 7 o'clock tomorrow morning.
(e) You scoring a strike at ten pin bowling.

(f) It will rain tomorrow.
(g) If a horse had a foal that it would be a filly.

(h) Essendon winning the AFL Grand Final next year.
(i) It will be sunny on Christmas Day this year.

4. A box of chocolates contained the following flavours:

4 caramel   3 strawberry
2 hazelnut   3 peppermint

(a) If you closed your eyes and picked a chocolate, which flavour would you be most likely to choose?

(b) Which flavour would you be least likely to choose?

(c) Four of your friends each picked a chocolate before you and chose the following flavours:
strawberry, caramel, hazelnut, caramel
You now choose a chocolate. Which flavour are you most likely to choose?

5. Vanita and Destiny play basketball. In one season Vanita had 60 shots at goal and scored 30 goals. Destiny had 80 shots at goal and scored 35 goals.
(a) If they each had one shot at goal who would be more likely to score a goal?

(b) If Vanita had 100 shots at goal, how many goals would you expect her to score?

6. The map below shows the percentage chance of rain falling on regions in Australia for a given day.

Legend:

☐ 0% Chance   ▨ 40% Chance

▨ 20% Chance   ▥ 60% Chance

Use this map to answer the following questions.
(a) Which **capital city** has got the **highest** chance of rain falling?

(b) What is the percentage chance of rain falling in:
   (i) Sydney?
   (ii) Darwin?
   (iii) Melbourne?
   (iv) Canberra?

(c) Name the two states that have 0% chance of it raining.