

6.1 The language of probability

Core

- a** B **b** C **c** D **d** C, as the section for white is bigger on spinner A

e Students draw and label 3 equal-sized sectors for red, white and yellow and a sector less than half labelled blue
- A at 50%, B at 65%, C at 0.1, D at $\frac{9}{10}$, E at 1%, F at 0.25, G at 36%
- Yes, as 8% is very low so it is very unlikely to rain

Depth

- a** even chance **b** impossible **c** likely **d** unlikely
- No yellow, 5 red and then the other 5 counters blue and green (3 of one colour and 2 of the other)
- A
- Although the spinners are different sizes, 1 on spinner A and 3 on spinner B both take up the same fraction of the spinner so will have the same probability
- a** unlikely **b** even chance **c** likely **d** impossible
- 6 blue, 3 red and 3 yellow

Support

- a** impossible **b** certain **c** even chance

d students own answer, for example, likely

e this will depend on the day this exercise is completed but will either be certain or impossible
- Spinner A: no shading, Spinner B: 4 or 5 sectors shaded, Spinner C: 3 sectors shaded
- a** 0.1, 0.2, 0.7, 0.8 **b** 10%, 40%, 60%, 70% **c** $\frac{2}{10}, \frac{4}{10}, \frac{7}{10}, \frac{9}{10}$
- a** 60% **b** 50% **c** 0.9 **d** $\frac{1}{10}$

