## S2 Card set A – *True, false or unsure?*

**A**

When you roll a fair six-sided die, it is harder to roll a six than a four.

**B**

Scoring a total of three with two dice is twice as likely as scoring a total of two.

**C**

In a lottery, the six numbers 3, 12, 26, 37, 44, 45 are more likely to come up than the six numbers 1, 2, 3, 4, 5, 6.

**D**

When two coins are tossed there are three possible outcomes: two heads, one head or no heads. The probability of two heads is therefore $\frac{1}{3}$.

**E**

There are three outcomes in a football match: win, lose or draw. The probability of winning is therefore $\frac{1}{3}$.

**F**

In a 'true or false?' quiz with ten questions, you are certain to get five right if you just guess.

**G**

If you toss a fair coin five times and get five heads in a row, the next time you toss the coin it is more likely to show a tail than a head.

**H**

In a group of ten learners, the probability of two learners being born on the same day of the week is 1.

**I**

If a family has already got four boys, then the next baby is more likely to be a girl than a boy.

**J**

The probability of getting exactly three heads in six coin tosses is $\frac{1}{2}$.