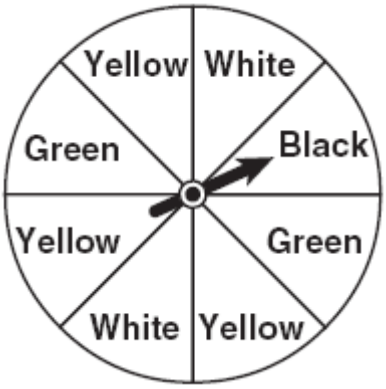
A.S.22: Determine, based on calculated probability of a set of events, if some or all are equally likely to occur, one is more likely to occur than another and whether or not an event is certain to happen or not to happen.

1. 060802ia, P.I. A.S.22
A spinner is divided into eight equal regions as shown in the diagram below.



Which event is most likely to occur in one spin?

[A] The arrow will land in a green or white area.

[B] The arrow will land in a yellow or green area.

[C] The arrow will land in a yellow or black area.

[D] The arrow will land in a green or black area.

2. 010903ia, P.I. A.S.22
The faces of a cube are numbered from 1 to 6. If the cube is rolled once, which outcome is *least* likely to occur?

[A] rolling a number less than 6

[B] rolling a number greater than 4

[C] rolling an odd number

[D] rolling an even number

3. 010811a, P.I. A.S.22
Which event has a probability of zero?

[A] choosing a triangle that is both isosceles and right

[B] choosing a number that is greater than 6 and is even

[C] choosing a letter from the alphabet that has line symmetry

[D] choosing a pair of parallel lines that have unequal slopes

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[1] B

[2] B

[3] D