Annexe 5: Quiz and crossword

- *According to the context, guess the meaning of the words and expressions that are underlined.*
- *Fill in the crossword.*
- *For each question, give the correct answer.*

QUIZ

1. Which of the following is an experiment?

a) Tossing a coin.
b) Rolling a single 6-sided die.
c) Choosing a marble from a jar.
d) All of the above.

2. Which of the following is an outcome?

a) Throwing a pair of dice.
b) Landing on red.
c) Choosing 2 marbles from a jar.
d) None of the above.

3. Which of the following experiments does NOT have equally likely outcomes?

a) Choose a number at random from 1 to 7.
b) Flip a coin.
c) Choose a letter at random from the word SCHOOL.
d) None of the above

4. What is the sample space for choosing a prime number less than 15 at random?

a) {2; 3; 5; 7; 11; 13; 15} b) {2; 3; 5; 7; 11; 13} c) {2; 3; 5; 7; 9; 11; 13} d) All of them.

5. What is the sample space for choosing one letter at random from the word DIVIDE?

a) {d, i, v, i, d, e} b) {1; 2; 3; 4; 5; 6} c) {d, i, v, e} d) None of them.

6. A spinner has 7 equal sectors numbered 1 to 7. If you spin the spinner, then which of the following is certain?

a) Landing on a number less than 7.
b) Landing on a number less than 8.
c) Landing on a number greater than 1.
d) None of the above.

7. What is the probability of choosing 14 hearts (without replacement) from a standard deck of 52 playing cards?

a) 1452 b) 1 c) 0 d) None of them.

8. If a single 6-sided die is rolled, then which of the following events is neither certain nor impossible?

a) Rolling a number less than 7.
b) Rolling an even number.
c) Rolling a zero.
d) None of the above.

9. We draw one card from a deck of 32 cards. Let A, B, C and D be the following events:

A: Draw an ace; B: Draw a heart; C: Draw the ace of hearts; D: Draw a spade.

- **Which of these two events are mutually exclusive?**

a) A and B. b) A and C. c) A and D. d) B and D.

- **Which of the following event is the complement of C ?**

a) Don't draw a heart. c) Don't draw an ace.

b) Draw either an ace or a heart. d) Neither of them.

CROSSWORD

Across

1. The result of a single trial of an experiment.
4. Outcomes are … if they have the same chance of occurring.
5. The set of all possible outcomes of an experiment.
7. A situation involving chance or probability that leads to results.
8. The measure of how likely an event is.
9. An event with a probability of 0.

Down

2. Two events that cannot occur at the same time (i.e., they have no outcomes in common).
3. The … of an event is all outcomes different from the favorable outcome.
4. One or more outcomes of an experiment.
6. An event that always occur.