وزارة التربية والتعليم

الإدارة المركزية لتطوير المناهج

إدارة تنمية مادة الرياضيات

أداءات وتقييمات لمنهج الرياضيات

للصف الأول الأعدادي

للعام الدراسي 2024 / 2025

Math-ENGLISH-Prep1-TR2-H-W14
Fourth Unit: Probabilities
Lessons (theoretical probability – Experimental probability – Unit's Assessment)

1- **In the experiment of rolling a fair die once and observing the number appearing on the upper face, find the probability of each of the following events:**

   a) Event (A) is the event of obtaining an even number.

   b) Event (B) is the event of obtaining a number less than or equal 4.

2- **A card is drawn randomly from identical cards numbered from 1 to 20, find the probability that the drawn card carries:**

   a) an odd number.

   b) a perfect square number.

3- **A bag has a red ball, 8 blue balls, and 7 green balls, all of them are identical, if a ball is drawn randomly from the bag and noticed its color, then what is the probability that the drawn ball is:**

   a) green.   b) red

4- **In the experiment of rolling a fair die once and observing the number appearing on the upper face, write the sample space and then determine each of the following events, indicating which of them is simple, certain, or impossible:**

   a) Event (A) is the event of obtaining the number 5.

   b) Event (B) is the event of obtaining an odd prime number.

5- **In the experiment of selecting an integer number from the numbers 1 to 30, write the sample space and then determine each of the following events, indicating which of them is simple, certain, or impossible:**

   a) Event (A) is the event of obtaining a number more than or equal 25.

   b) Event (B) is the event of obtaining a perfect cube number.

6- A class has 15 student, 6 of them with black hair, 4 with brown hair, and 5 with yellow hair, if a student is chosen at random, find the probability that the student is:

   a) his hair is brown.

   b) his hair is not black.

7- In the experiment of forming a two-digit number of different digits from the set of digits {1, 5, 3}, if one of these numbers is chosen at random, find the probability that number is:

   a) divisible by 5.

   b) its Ones digit = its Tens digit.

8- A fair coin is tossed 100 times, and the head appeared 44 times, find the experimental probability of appearing:

   a) the head (H)

   b) the tail (T)

9- A player attempted to the goal 50 shoots, he scored 39 of them, find the experimental probability of:

   a) scoring the goal (G)

   b) not scoring the goal (F)

10- In the experiment of rolling a fair die 10 consecutive times, if the number 3 appeared twice on the upper face of the die, then what is the experimental probability of not appearing of the number 3?