PEP Grade 9 Math — Unit 25: Introduction to Probability • Unit Test (Basic)

PEP · Grade 9 · Term 1 · Mathematics · Unit Test · Basic

AI-generated practice paper · original study aid, not an official examination paper · 40 questions · 100 points

Name: _____ Date: _____ Score: _____

Answer all questions. This paper is worth 100 points. Show your working where appropriate.

I. Multiple Choice

1. Which of the following is a certain event in a single toss of a fair six-sided die?
   A. Getting a number less than 7
   B. Getting a number greater than 6
   C. Getting an even number
   D. Getting a prime number

2. If a bag contains 3 red balls and 5 blue balls, what is the probability of randomly picking a red ball?
   A. 3/5
   B. 3/8
   C. 5/8
   D. 1/3

3. When two fair coins are tossed simultaneously, what is the probability of getting one head and one tail?
   A. 1/4
   B. 1/3
   C. 1/2
   D. 3/4

4. In a class of 25 students, 10 are girls. If one student is chosen at random, what is the probability that the student is a boy?
   A. 10/25
   B. 15/25
   C. 1/2
   D. 1/3

5. A spinner has 4 equal sections labeled A, B, C, and D. What is the probability of landing on A or C?
   A. 1/4
   B. 1/2
   C. 3/4
   D. 1/3

6. Which of the following events is impossible?
   A. Rolling a 7 on a standard die
   B. Drawing a black card from a deck of cards
   C. Flipping a coin and getting heads
   D. Choosing a vowel from the word 'CAT'

7. If the probability of rain tomorrow is 0.4, what is the probability that it will not rain?
   A. 0.4
   B. 0.5
   C. 0.6
   D. 1.0

8. A box contains 6 identical marbles: 2 green, 3 yellow, and 1 red. One marble is drawn at random. What is the most likely color?
   A. Green
   B. Yellow
   C. Red
   D. All equally likely