

Mathematics Grade 9

Name: _____ No. _____ M.4/_____

Probability

$$P(A) = \frac{n(A)}{n(s)} = \frac{\text{the number of ways in which } A \text{ can occur}}{\text{the total number of probable events or possible outcomes}}$$

1. What is the probability of choosing an **even number** from the numbers 1, 2, 3, 4, 5?

Solution

The number of ways in which an even number is chosen =

The total number of equally likely outcomes =

$$\therefore P(\text{choosing an even number}) = \text{—}$$

Answer: —

2. What is the probability of picking a B from the word **PROBABILITY**?

Solution

The number of ways in which B is chosen =

The total number of equally likely outcomes =

$$\therefore P(\text{choosing a B}) = \frac{\quad}{\quad}$$

Answer: $\frac{\quad}{\quad}$

3. What is the probability of choosing an **integer** that is exactly **divisible** by 3 from the list 2, 4, 7, 9, 10?

Solution

The number of ways in which an integer =
that is exactly divisible by 3 is chosen

The total number of equally likely outcomes =

$\therefore P(\text{choosing an integer that is exactly divisible by 3}) = \text{—}$

Answer: —

4. A number is chosen from the first **15 positive integers**. What is the probability that it is a prime number?

Solution

The number of ways that it is a prime number =

The total number of equally likely outcomes =

$$\therefore P(\text{that it is a prime number}) = \frac{\text{Number of ways that it is a prime number}}{\text{Total number of equally likely outcomes}}$$

Answer: —