**Objective:**

* Learn about the Math Object and arrays in JavaScript.

1. **Solve the following problems using Math Functions:**
2. Use the correct Math method to create a random number.

let r = ;

1. Use the correct Math method to return the largest number of 10 and 20.

let x = (10, 20);

1. Use the correct Math method to round a number to the nearest integer.

let x = Math.(5.3);

1. Use the correct Math method to get the square root of 9.

let x = Math.;

1. Use the correct Math method to round up a number to the nearest integer.

let x = Math.(7.6);

1. Use the correct Math method to round down a number to the nearest integer.

let x = Math.(2.6);

1. What is the result of the following methods?

|  |  |
| --- | --- |
| **Methods** | **Result** |
| Math.ceil(.95) | 1 |
| Math.ceil(4) | 4 |
| Math.floor(45.95) | 45 |
| Math.round(20.49) | 20 |
| Math.ceil(7.004) | 8 |
| Math.floor(-45.95) | -46 |
| Math.ceil(-7.004) | -7 |
| Math.round(20.5) | 21 |
| Math.round(-20.5) | -20 |
| Math.round(-20.51) | -21 |

1. **Solve the following problems using Arrays:**

Given the array = [1,2,3,4,5,6]

1. Iterate through all the elements within an array using while and display them on the screen.
2. Iterate through all the elements within an array using for and display them on the screen.
3. Generate a copy of an array but with all elements incremented by 1.
4. Calculate the average.