

Numbers

1. Create a script that prompts the visitor to enter two numbers and then shows their sum.
2. According to the documentation `Math.round` and `toFixed` both round to the nearest number: `0.4` lead down while `0.5` lead up. For instance

```
alert( 1.35.toFixed(1) ); // 1.4
```

In the similar example below, why is `6.35` rounded to `6.3`, not `6.4`? How to round `6.35` the right way?

```
Alert( 6.35.toFixed(1) ); // 6.3
```

3. Create a function `readNumber` which prompts for a number until the visitor enters a valid numeric value. The resulting value must be returned as a number. The visitor can also stop the process by entering an empty line or pressing “CANCEL”. In that case, the function should return `null`.
4. This loop is infinite. It never ends. Why?

```
let i = 0;
while (i != 10) {
  i += 0.2;
}
```

5. The built-in function `Math.random()` creates a random value from `0` to `1` (not including `1`). Write the function `random(min, max)` to generate a random floating-point number from `min` to `max` (not including `max`).
6. Create a function `randomInteger(min, max)` that generates a random *integer* number from `min` to `max` including both `min` and `max` as possible values. Any number from the interval `min..max` must appear with the same probability.