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Goals

Goal 1: Review full rubric for Unit 1

Goal 2: Practice, practice, practice

Vocabulary

Code

Analogy Magic Numbers Modulo

0/0

Getting to know you

If you had your human body, but the head of an animal, what animal would pick?

Review

What is an ALGORITH M?

Review

What is an ALGORITHM?

A series of finite steps that will solve a problem.

Review

What are the two PRIMITIVES?

Review

What are the two PRIMITIVES?

Strings and Numbers

Review

What is an example of an OPERATOR?

Review

What is an example of an OPERATOR?

+ is an operator. Concatenation for Strings and addition for Numbers

Review

Complete the analogy:

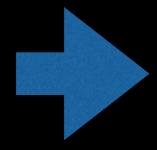
Primitives: Operators as _____: ____:

Time to Grade

- 1. Open Task07-AreaOfRectangularRoom
- 2. Swap computer with partner
- 3. Use rubric to grade partner's program

New Operator

% is called the Modulo (or modulus) operator



% means remainder

20 % 9 evaluates to 2

remainder of 20 / 9

Magic Numbers and Using Variables for Clarity

```
<script>
// Get input from user
var lengthString = prompt("What is the length of the room in feet?");
var widthString = prompt("What is the width of the room in feet?");
// Convert input from strings to numbers
var length = parseInt(lengthString);
var width = parseInt(widthString);
// Do the calculations to find the areas
var areaSqMeters = length * width * 0.09290304;
// Put together the output string
var output = "The area is\n" + areaSqFeet + " square feet\n" +
areaSqMeters.toFixed(1) + " square meters";
// Print the output
alert(output);
</script>
```

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                                                MAGIC NUMBER!
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areaSqMeters.toFixed(1) + " square meters";
// Print the output
alert(output);
</script>
```

Magic Numbers and Using Variables for Clarity

```
<script>
var CONVERSION FACTOR = 0.09290304;
// Get input from user
var lengthString = prompt("What is the length of the room in feet?");
var widthString = prompt("What is the width of the room in feet?");
// Convert input from strings to numbers
var length = parseInt(lengthString);
var width = parseInt(widthString);
// Do the calculations to find the areas
var areaSqFeet = length * width;
var areaSqMeters = areaSqFeet * CONVERSION FACTOR;
// Put together the output string
var output = "The area is\n" + areaSqFeet + " square feet\n" +
areaSqMeters.toFixed(1) + " square meters";
// Print the output
alert(output);
</script>
```

Time to Practice

- 1. Complete Task08 together. Switch after 5:00.
- 2. Complete assessment tasks on your own