# 01.01 Lab Solution

_____

1. **type: number**

- Variable names cannot have spaces.
- Value must be a number, so it cannot be $10, which, is a string requiring quotes: '$10'.

```
// let admission Fee = $10;
let admissionFee = 10;
console.log('1:', 'admissionFee', admissionFee, typeof(admissionFee));
```

2. **type: string**

- Variable names cannot have special characters (other than _ and $).

```
// let #1sportsCar = "Porsche";
let sportsCar1 = "Porsche";
console.log('2:', 'sportsCar1', sportsCar1, typeof(sportsCar1));
```

3. **type: boolean**

- Variable names cannot have spaces.
- Boolean values (true, false) are lowercase.

```
// let is Online = FALSE;
let isOnline = false;
console.log('3:', 'isOnline', isOnline, typeof(isOnline));
```

4. **type: number**

- Variable names cannot have special characters (other than _ and $).
- 22.5% percent as a decimal is .225, not 22.5

```
// let %done = 22.5%;
let pctDone = .225;
console.log('4:', 'pctDone', pctDone, typeof(pctDone));
```

5. **type: undefined**

- A variable without a value is undefined, so remove the value.

```javascript
    let password = "&123b45d";
    let password;
    console.log('5:', 'password', password, typeof(password));
```

6. **type: string**

- Variable names cannot start with a number.
- String values go in single or double quotes.

```javascript
    let 26miles = marathon;
    let miles26 = "marathon";
    console.log('5:', 'password', password, typeof(password));
```

7. **type: string**

- The $ is allowed, so the variable name is fine, as is.
- String values go in single or double quotes.

```javascript
    // let $100000Bar = candy bar;
    let $100000Bar = "candy bar";
    console.log('7:', '$100000Bar', $100000Bar, typeof($100000Bar));
```

8. **type: number**

- Numeric values cannot have commas.

```javascript
    // let firstPrize = 7,500;
    let firstPrize = 7500;
    console.log('8:', 'firstPrize', firstPrize, typeof(firstPrize));
```

9. **type: boolean**

- i_Won is legal, although iWon (camel-case) is better
- Variable names cannot include !
- boolean values (true, false) are lowercase

```javascript
    // let i_Won! = True;
    let iWon = true;
    console.log('9:', 'iWon', iWon, typeof(iWon));
```

10. **type: undefined**

- A variable without a value is undefined, so remove the value.

```javascript
    // let greeting = Hola;
    let greeting;
    console.log('10:', 'greeting', greeting, typeof(greeting));
```

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**END 01.01 LAB SOLUTION**

**Next: Lesson 01.02**