Basic JS Questions

1 for each topic

1. Variables (var, let, const)
2. Conditionals (conditional statements - if, elif, else)
3. Functions (basic functions)
4. Scope (global, local)
5. Arrays (list, tuple?)
6. Loops (while, for)
7. Iterators (sequence, next())
8. Objects (an entity with properties and type)

1. **Variables:**
    Can you use var, let and const interchangeably? ANS: NO
    Var - It can be declared without initialization.
    Let - It can be declared without initialization.
    Const - It cannot be declared without initialization.
    Reason: only let and var can be declared without initialising, const has to
    declared before using.

2. **Functions:**

```js
function myFunction(p1, p2) {
    return p1 * p2;
}



document.write(myFunction(5, 6));
```

What is the output of this code?

~~What is the correct way to use functions?~~
~~function myFunction() {~~
~~   let voteable;~~

3. **Conditionals:**

What is the output of this code?

```javascript
var day = 'Tuesday';

if (day === 'Monday') {
    document.write('Monday Blues');
} else if (day ==='Tuesday') {
    document.write('Happy Tuesday');
} else {
    document.write('Happy Day');
}
```

   a) Monday Blues
   b) Happy Day
   c) Happy Tuesday
   d) Happy Weekend

4. **Arrays:**

What method do you use to remove the last item in an array?
   a) .push()
   b) .shift()
   c) .pop() [CORRECT ANS]
   d) .unshift()

5. **Loops:**

```javascript
for (let i=0; i < multiplesOf3.length; i++) {
    for (let j=0; j < multiplesOf4.length; j++) {
        if(multiplesOf3[i] === multiplesOf4[j]) {
            document.write('Both arrays have the number: ' + multiplesOf3[i])
        }
    }
};
```

What is the output of the multiplesOf3[i] ?
   a) 16
   b) 9

c) 24

d) 12 (correct ans)

6. **Iterators:**

```
const fruits = ['apple','banana','lemon','blueberry'];

const shortfruits = fruits.filter(fruits => {
    return fruits.length <= 5;
})

console.log(shortfruits);
```

7. **Objects:**

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8. **Math:**

What method do you use to round up a number up to the next integer?

a) Math.round()

b) Math.floor()

c) Math.ceil()

d)