# Randomly Selected Questions - Set 8

**Question 1 (ID: 2.1.10):** Multiple Choice: Which property is used to create space around elements, inside of any defined borders?  
 - (A) margin  
 - (B) padding  
 - (C) border  
 - (D) width

**Question 2 (ID: 3.4.5):** Multiple Choice: What will be the value of `result` after the following code executes?  
let age = 25; let result = age >= 18 ? "Adult" : "Minor";  
- (A) "Adult"  
- (B) "Minor"  
- (C) undefined  
- (D) NaN

**Question 3 (ID: 3.2.9):** Multiple Choice: Which JavaScript function is used to convert a string to a number?  
- (A) `parseString()`  
- (B) `convertNum()`  
- (C) `parseInt()`  
- (D) `toNumber()`

**Question 4 (ID: 2.2.4):** Multiple Choice: How would you select an HTML element with the ID 'banner'?  
 - (A) .banner  
 - (B) #banner  
 - (C) banner  
 - (D) &banner

**Question 5 (ID: 2.4.6):** Multiple Choice: Which CSS property changes the text style to italic?  
 - (A) font-weight  
 - (B) font-style  
 - (C) text-decoration  
 - (D) text-align

**Question 6 (ID: 4.2.6):** Multiple Choice: What does the regex `/ab\*c/` match?  
  
- (A) "ac"  
- (B) "abc"  
- (C) "abbbbbbc"  
- (D) All of the above

**Question 7 (ID: 1.4.1):** True/False: HTML comments are rendered in the browser and visible to the user.

**Question 8 (ID: 3.6.9):** Multiple Choice: What will be the output of the following arrow function?  
  
let double = (x) => x \* 2;  
console.log(double(5));  
  
- (A) 5  
- (B) 10  
- (C) undefined  
- (D) An error will occur

**Question 9 (ID: 3.10.10):** Multiple Choice: What will this code output?  
  
let students = {  
 123: { name: "Tiara", gpa: 3.3 },  
 444: { name: "Lee", gpa: 2.0 }  
};  
console.log(444 in students);  
  
- (A) true  
- (B) false  
- (C) undefined  
- (D) null

**Question 10 (ID: 3.10.5):** Multiple Choice: What is the output of the following code?  
  
let contacts = {  
 Rosa: { phone: "303-555-4321", email: "rosa@gmail.com" },  
 Dave: { phone: "501-533-9988", email: "dave@yahoo.com" }  
};  
console.log(contacts["Dave"].email);  
  
- (A) rosa@gmail.com  
- (B) 501-533-9988  
- (C) dave@yahoo.com  
- (D) undefined

**Question 11 (ID: 3.1.3):** Multiple Choice: JavaScript uses an interpreter to execute code. What is an interpreter's main role?  
 - (A) To compile code into machine language before execution  
 - (B) To execute code without compiling it into machine language first  
 - (C) To optimize JavaScript code for web browsers  
 - (D) To compile JavaScript into assembly code

**Question 12 (ID: 3.3.5):** Multiple Choice: Given the following code, what will be the output?  
let age = 6;   
if (age % 2 == 0) {   
 console.log("age is even");   
} else {   
 console.log("age is odd"); }   
   
if (age > 10) {   
 console.log("age is greater than 10");   
} else {   
 console.log("age is not greater than 10");   
 }  
  
- (A) "age is odd" and "age is greater than 10"  
- (B) "age is even" and "age is not greater than 10"  
- (C) "age is odd" and "age is not greater than 10"  
- (D) "age is even" and "age is greater than 10"

**Question 13 (ID: 4.10.6):** Multiple Choice: What is the effect of the following code?  
  
let myDiv = document.getElementById("mydiv");  
myDiv.style.removeProperty("width");  
  
- (A) The div's width is removed, making it span the entire width of the page.  
- (B) The div is deleted from the DOM.  
- (C) The div's background color changes.  
- (D) The div's height is set to 0.

**Question 14 (ID: 2.6.6):** Multiple Choice: Which of the following CSS properties is typically used to set the stacking order of elements with positioning?  
 - (A) z-index  
 - (B) float  
 - (C) visibility  
 - (D) opacity

**Question 15 (ID: 4.8.8):** Multiple Choice: What is the difference between `childNodes` and `children` properties?  
  
- (A) `childNodes` includes text nodes, while `children` includes only element nodes.  
- (B) `children` includes all node types, while `childNodes` includes only element nodes.  
- (C) `childNodes` includes only the first child, while `children` includes all children.  
- (D) `children` includes only the first child, while `childNodes` includes all children.

**Question 16 (ID: 3.9.1):** Multiple Choice: What does the following code output to the console?  
  
```javascript  
let book = {  
 title: "Outliers",  
 published: 2011,  
 keywords: ["success", "high-achievers"]  
};  
console.log(book.title);  
console.log(book.keywords[0]);  
  
(A) Outliers, success  
(B) Outliers, high-achievers  
(C) undefined, success  
(D) undefined, undefined

**Question 17 (ID: 2.6.1):** Multiple Choice: What does `position: relative;` do in CSS?  
 - (A) Positions an element relative to its parent element  
 - (B) Positions an element based on the top-left corner of the viewport  
 - (C) Positions an element relative to its normal position in the document flow  
 - (D) Positions an element relative to the first parent with a position other than `static`

**Question 18 (ID: 4.8.7):** Multi-Select: Which of the following methods can be used to create a new node in the DOM? (Select all that apply)  
  
- (A) `createElement()`  
- (B) `createTextNode()`  
- (C) `cloneNode()`  
- (D) `insertBefore()`

**Question 19 (ID: 3.5.4):** Multiple Choice: What happens if the condition in a `for` loop is initially false?  
  
- (A) The loop runs infinitely.  
- (B) The loop will execute once.  
- (C) The loop body will never execute.  
- (D) The condition will be ignored.

**Question 20 (ID: 2.5.3):** Multi-Select: Which layers are considered when calculating the total size of an element in the CSS box model? (Select all that apply)  
 - (A) Content  
 - (B) Padding  
 - (C) Border  
 - (D) Margin

**Question 21 (ID: 3.9.7):** Multiple Choice: What does the this keyword refer to inside a method?  
  
(A) The global object  
(B) The object that owns the method  
(C) The function scope  
(D) The nearest variable in scope

**Question 22 (ID: 2.1.7):** Multiple Choice: What does the 'style' attribute represent in an HTML tag?  
 - (A) A way to add a unique identifier to an element  
 - (B) A method to apply CSS rules directly to the element  
 - (C) A link to an external stylesheet  
 - (D) An indication of the element's importance in the document

**Question 23 (ID: 1.3.6):** Multiple Choice: What does the <br> tag accomplish in an HTML document?  
 - (A) It adds a background color to text.  
 - (B) It creates a new paragraph.  
 - (C) It inserts a line break within the text.  
 - (D) It changes the font size of the text.

**Question 24 (ID: 4.5.3):** Multiple Choice: What is the effect of adding `box-sizing: border-box` to input fields?  
  
- (A) It includes padding and borders in the element's width and height.  
- (B) It excludes padding and borders from the element's width and height.  
- (C) It adds extra spacing around the element.  
- (D) It removes any styling from the input fields.

**Question 25 (ID: 1.8.5):** True/False: The `<div>` element can contain both block-level and inline elements.

**Question 26 (ID: 4.7.10):** Multiple Choice: Which DOM method is used to remove an attribute from an element?  
  
- (A) `removeChild()`  
- (B) `removeAttribute()`  
- (C) `setAttribute()`  
- (D) `deleteNode()`

**Question 27 (ID: 3.2.3):** Multi-Select: Which of the following are valid arithmetic operations in JavaScript? (Select all that apply)  
- (A) `10 + 2`  
- (B) `5 \* 3`  
- (C) `8 / "4"`  
- (D) `"5" - 2`

**Question 28 (ID: 3.4.3):** Multi-Select: Which of the following values are considered truthy in JavaScript? (Select all that apply)  
- (A) "Hello"  
- (B) null  
- (C) 1  
- (D) 0

**Question 29 (ID: 1.2.3):** Multiple Choice: Which tag is used to define an independent, self-contained content that could be syndicated?  
 - (A) <div>  
 - (B) <section>  
 - (C) <article>  
 - (D) <span>

**Question 30 (ID: 1.7.6):** True/False: An `<a>` element can only contain text and cannot include images.

**Question 31 (ID: 4.7.8):** Multiple Choice: What does the `appendChild()` method do in the DOM?  
  
- (A) It replaces an existing child node.  
- (B) It removes a child node.  
- (C) It adds a new child node to an element.  
- (D) It moves a node to the beginning of the parent element.

**Question 32 (ID: 1.5.3):** Multiple Choice: Which attribute specifies the image source in an <img> tag?  
 - (A) href  
 - (B) src  
 - (C) rel  
 - (D) type

**Question 33 (ID: 3.5.10):** Multiple Choice: What is the effect of an infinite loop in JavaScript?  
  
- (A) The program runs forever, causing the browser to crash.  
- (B) The program runs forever, but the browser continues to respond.  
- (C) The loop stops after a fixed number of iterations.  
- (D) The loop automatically terminates after 1000 iterations.

**Question 34 (ID: 2.7.8):** Multiple Choice: How do you center flex items along the cross-axis in a flex container?  
 - (A) `justify-content: center;`  
 - (B) `align-items: center;`  
 - (C) `flex-grow: 1;`  
 - (D) `flex-shrink: 0;`

# Answers

**Answer to Question 1:** (B) padding

**Answer to Question 2:** (A) "Adult"

**Answer to Question 3:** (C) `parseInt()`

**Answer to Question 4:** (B) #banner

**Answer to Question 5:** (B) font-style

**Answer to Question 6:** (D) All of the above

**Answer to Question 7:** False

**Answer to Question 8:** (B) 10

**Answer to Question 9:** (A) true

**Answer to Question 10:** (C) dave@yahoo.com

**Answer to Question 11:** (B) To execute code without compiling it into machine language first

**Answer to Question 12:** (B) "age is even" and "age is not greater than 10"

**Answer to Question 13:** (A) The div's width is removed, making it span the entire width of the page.

**Answer to Question 14:** (A) z-index

**Answer to Question 15:** (A) `childNodes` includes text nodes, while `children` includes only element nodes.

**Answer to Question 16:** (A) Outliers, success

**Answer to Question 17:** (C) Positions an element relative to its normal position in the document flow

**Answer to Question 18:** (A) `createElement()`, (B) `createTextNode()`

**Answer to Question 19:** (C) The loop body will never execute.

**Answer to Question 20:** (A) Content, (B) Padding, (C) Border

**Answer to Question 21:** (B) The object that owns the method

**Answer to Question 22:** (B) A method to apply CSS rules directly to the element

**Answer to Question 23:** (C) It inserts a line break within the text.

**Answer to Question 24:** (A) It includes padding and borders in the element's width and height.

**Answer to Question 25:** True

**Answer to Question 26:** (B) `removeAttribute()`

**Answer to Question 27:** (A) `10 + 2`, (B) `5 \* 3`, (C) `8 / "4"`, (D) `"5" - 2`

**Answer to Question 28:** (A) "Hello", (C) 1

**Answer to Question 29:** (C) <article>

**Answer to Question 30:** False

**Answer to Question 31:** (C) It adds a new child node to an element.

**Answer to Question 32:** (B) src

**Answer to Question 33:** (A) The program runs forever, causing the browser to crash.

**Answer to Question 34:** (B) `align-items: center;`