

1. What new feature related to private properties was introduced in JavaScript?

- Private class fields and methods using **# prefix** (introduced in ES2020).
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2. What are the features collectively called private properties in JavaScript?

- Instance fields, Instance methods, Class fields, Class methods
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3. How are private properties declared in JavaScript classes?

By using a **# prefix** before the property or method name.

```
class Student {  
  #age; // private field  
  #isAdult() {} // private method  
}
```

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4. What is the syntax error when referring to private properties from outside of a class in JavaScript according to the sources?

- **SyntaxError: Private field '#fieldName' must be declared in an enclosing class**

Example:

```
const s = new Student();  
console.log(s.#age); // ✗ SyntaxError
```

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5. How can you access private properties within static functions in JavaScript classes based on the sources?

- **Private properties cannot be accessed directly inside static methods**, because static methods belong to the class, not the instance.


You need to **access them via an instance** passed to the static method:

```
class Student {  
  #age;  
  constructor(age) { this.#age = age; }  
  
  static showAge(student) {  
    return student.#age; // access via instance  
  }  
}
```

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6. What is the primary way to access a private property in JavaScript classes according to the sources?

Through public methods (getters/setters) or other public instance methods inside the class.

```
class Student {  
  #age;  
  constructor(age) { this.#age = age; }  
  
  getAge() { return this.#age; }  
}  
const s = new Student(25);  
console.log(s.getAge()); //  25
```

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