### **1. px: Set the width and height of a box in pixels.**

**Question**: Create a box with a width of 200px and height of 100px. How does it scale when the viewport size changes?

<div class="box-px">Box with px units</div>

### **2. %: Set the width of a box as a percentage of its parent.**

**Question**: Create a container and a child box. Set the child box’s width to 50% of the parent container. How does it behave when the container’s size changes?

<div class="parent-percent">  
 <div class="child-percent">Box with % units</div>  
</div>

### **3. rem: Set the font size relative to the root element.**

**Question**: Create a paragraph with font size set to 2rem. How does changing the root font size affect the paragraph?

<p class="rem-paragraph">This paragraph uses rem units.</p>

### **4. em: Set the font size relative to its parent element.**

**Question**: Create a container with a font size of 16px, and a child element with font size 1.5em. How does the child element’s font size depend on its parent?

<div class="parent-em">  
 <p class="child-em">This paragraph uses em units.</p>  
</div>

### **5. vw: Set the width of a box relative to the viewport width.**

**Question**: Create a box with a width of 50vw. What happens if you resize the browser window?

<div class="box-vw">Box with vw units</div>

### **6. vh: Set the height of a box relative to the viewport height.**

**Question**: Create a box with a height of 25vh. How does the box’s height change when resizing the viewport vertically?

<div class="box-vh">Box with vh units</div>

### **7. vmin: Set a square’s size using the smaller dimension of the viewport.**

**Question**: Create a square div with width and height set to 20vmin. What happens if you change the browser’s orientation?

<div class="square-vmin">Square with vmin units</div>

### **8. vmax: Set a square’s size using the larger dimension of the viewport.**

**Question**: Create a square div with width and height set to 20vmax. How does it compare to vmin when the viewport changes?

<div class="square-vmax">Square with vmax units</div>

### **9. Parent-Child Relationship (Box with Relative and Absolute Positioning)**

**Question**: Create a parent box with position: relative and a child box with position: absolute. Place the child box at the bottom-right corner of the parent. How does the relative positioning of the parent affect the child?

<div class="parent-relative">  
 <div class="child-absolute">Child Box</div>  
</div>

### **10. Parent-Child Relationship (Font Size Inheritance)**

**Question**: Create a parent div with a font size of 20px and a child div with font-size: inherit. How does the child’s font size behave if you change the parent’s font size?

<div class="parent-font">  
 Parent Text  
 <div class="child-font">Child Text (Inherits Font Size)</div>  
</div>