* **Question 1**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<!--Styling the table using CSS-->

<style>

table,

th,

tr,

td {

border-width: 5px;

background-color: rgb(255, 210, 0);

text-align: left;

padding: 10px;

border: 2px solid black;

border-collapse: collapse;

color: black;

font-size: 20px;

}

</style>

<style>

table {

margin: auto;

outline: black solid 10px;

}

</style>

<title>1. Write an HTML 5 code that will produce the following Display</title>

</head>

<body>

<div>

<table class="border">

<tbody>

<tr>

<th><b>Apple iOS</b></th>

<th><b>iPad</b></th>

<th><b>iPhone</b></th>

<th><b>touch</b></th>

</tr>

<tr>

<td><b>Google Android</b></td>

<td><b>Nexus 7</b></td>

<td><b>Samsung Galaxy Notes 8</b></td>

<td><b>Samsung Galaxy Notes 4</b></td>

<td><b>HP Slate 7</b></td>

</tr>

<tr>

<td><b>Blackbery OS</b></td>

<td><b>Blackbery Z10</b></td>

<td><b>Blackberry Q10</b></td>

</tr>

<tr>

<td><b>Microsoft Windows Phone OS/RT</b></td>

<td><b>Nokia</b></td>

<td><b>Samsung ATIV</b></td>

<td><b>Surface</b></td>

</tr>

</tbody>

</table>

</div>

</body>

</html>

* **Question 2**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<style>

#box {

border: 2px solid blue;

padding: 1px;

margin: 1px;

width: 300px;

}

div {

padding-top: 0%;

font-size: 20px;

text-align: left;

font-weight: 100;

font-family: 'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif;

}

ol {

list-style-type: circle;

}

</style>

<title>2. Create a web page that looks like the following display</title>

</head>

<body id="box">

<div>

<p style="height: 8px;">1. Apple iOS</p>

<ol>

<li>iPad</li>

<li>iPhone</li>

<li>iPod touch</li>

</ol>

<p style="height: 8px;">2. Google Android</p>

<ol>

<li>Nexus 7</li>

<li>Samsung Galaxy Notes 8</li>

<li>Samsung Galaxy Notes 4</li>

</ol>

<p style="height: 8px;">3. Blackberry OS</p>

<ol>

<li>blackberry Z10</li>

<li>blackberry Q10</li>

<li>Samsung Galaxy Notes 4</li>

</ol>

<p style="height: 8px;">4 Microsoft Window Phone OS/RT</p>

<ol>

<li>Nokia</li>

<li>Samsung ATIV</li>

<li>Surface</li>

</ol>

</div>

</body>

</html>

* **Question 3**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<link rel="stylesheet" href="https://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.css" />

<script src="https://code.jquery.com/jquery-1.11.1.min.js"></script>

<script src="https://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.js"></script>

</head>

<body>

<div style=>

<div data-role="page" style="width: 800px; height: auto;">

<div data-role=header>

<div data-role="content">

<h1 data-role="header" data-theme="b">Converting fluid measurements</h1>

</div>

<fieldset data-role="controlgroup">

<legend>Enter quantities of gallons:</legend>

<input type="number" id="gallon" name="number" placeholder="gallons" />

</fieldset>

</div>

<div>

<button data-role="button" data-mini="true"

data-inline="false" class="ui-btn">Display</button>

</div>

<div data-role="footer" data-theme="b">Fluid quantity converter</div>

</div>

</div>

</body>

</html>

* **Question 4**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<link rel="stylesheet" href="https://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.css" />

<script src="https://code.jquery.com/jquery-1.11.1.min.js"></script>

<script src="https://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.js"></script>

<title>4. Write HTML5 code that will create the following linked pages</title>

<style>

div {

background-color: lightcyan;

text-align: center;

font-size: large;

height: 450px;

width: 25%;

border: 1px solid;

padding: 5px;

box-shadow: 5px 10px rgb(0, 183, 255);

}

#parent {

width: 100%;

height: 10%;

white-space: nowrap;

background-color: lightskyblue;

}

.child-1 {

display: inline-table;

width: 45%;

height: 50%;

background-color: lightskyblue;

font-weight: bold;

}

.child-2 {

display: inline-block;

width: 45%;

height: 50%;

background-color: lightcyan;

font-weight: bold;

}

h1,

p,

ul {

text-align: left;

}

</style>

</head>

<body>

<div data-role="page">

<div data-role="content">

<div id="parent">

<div class="child-1">Information</div>

<div class="child-2">Interface</div>

</div>

<h1><b>Fluid unit</b><br>conversion</h1>

<p>There are two primary units for measuring <br>

volume of fluid</p>

<ul>

<li>Imperial system uses unit such as gallon</li>

<li>Metric system uses unit such as liters</li>

</ul>

<p>This app allows you to convert from <br> gallons to liters using the formula:

<br> liter=gallon/3.789.

</div>

</div>

</body>

</html>

* **Question 5**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<!--Drawing a cylinder function using JavaScript-->

<script>

function cylinder\_drawing() {

var canvas = document.getElementById('canvasid');

var context\_variable = canvas.getContext('2d');

var centX = 0;

var centY = -100;

var r\_variable = 30;

context\_variable.save();

context\_variable.translate(canvas.width / 2, canvas.height / 2);

context\_variable.scale(6, 1);

context\_variable.beginPath();

context\_variable.arc(centX, centY, r\_variable, 0, 2 \* Math.PI, false);

context\_variable.restore();

context\_variable.fillStyle = 'YellowGreen';

context\_variable.fill();

context\_variable.lineWidth = 7;

context\_variable.strokeStyle = 'GainsBoro';

context\_variable.stroke();

context\_variable.save();

context\_variable.translate(canvas.width / 2, canvas.height / 2);

context\_variable.scale(6, 1);

context\_variable.beginPath();

context\_variable.arc(centX, 100, r\_variable, 0, 2 \* Math.PI, false);

context\_variable.restore();

context\_variable.fillStyle = 'MediumSlateBlue';

context\_variable.fill();

context\_variable.lineWidth = 7;

context\_variable.strokeStyle = 'GainsBoro';

context\_variable.stroke();

context\_variable.save();

context\_variable.beginPath();

context\_variable.lineWidth = 3;

context\_variable.strokeStyle = "rgba(0,0,0)";

context\_variable.moveTo(80, 100);

context\_variable.lineTo(80, 320);

context\_variable.moveTo(420, 95);

context\_variable.lineTo(420, 325);

context\_variable.stroke();

context\_variable.translate(canvas.width / 2, canvas.height / 2);

context\_variable.scale(6, 1);

context\_variable.beginPath();

context\_variable.arc(centX, centY + 2, r\_variable + 0.8, 0, Math.PI, false);

context\_variable.restore();

context\_variable.lineWidth = 4;

context\_variable.strokeStyle = "rgba(0,0,0)";

context\_variable.stroke();

context\_variable.save();

context\_variable.translate(canvas.width / 2, canvas.height / 2);

context\_variable.scale(6, 1);

context\_variable.beginPath();

context\_variable.arc(centX, 100 + 2, r\_variable + 0.8, 0, Math.PI, false);

context\_variable.restore();

context\_variable.lineWidth = 4;

context\_variable.strokeStyle = "rgba(0,0,0)"

context\_variable.stroke();

}

</script>

<title>5.1 Draw the following figure of a cylinder on a canvas</title>

</head>

<body onload="cylinder\_drawing()">

<canvas id="canvasid" height="400" width="500" />

</body>

</html>

**External Resource:**

* W3C - <https://www.w3schools.com/>
* CDN links - <https://jquerymobile.com/download/>