<!DOCTYPE html>

<html>

<head>

<meta charset**=**"UTF-8">

<title>Calculate MPG</title>

<link rel**=**"stylesheet" href**=**"mpg.css">

<script>

"use strict";

**var** $ = **function(**id**)** {

**return** document.getElementById(id);

};

**var** calculateMpg = **function(**miles, gallons**)** {

**var** mpg = (miles / gallons);

mpg = mpg.toFixed(1);

**return** mpg;

};

**var** clearEntries = **function ()** {

document.getElementById("miles").value="";

document.getElementById("gallons").value="";

document.getElementById("mpg").value="";

**return**;

};

**var** processEntries = **function()** {

**var** miles = parseFloat($("miles").value);

**var** gallons = parseFloat($("gallons").value);

**if** (isNaN(miles)) {

alert("Miles must be numeric");

$("miles").focus(); }

**else if**

(isNaN(gallons)) {

alert("Gallons must be numeric");

$("gallons").focus(); }

**else if**

(miles <= 0) {

alert("Miles must be greater than zero");

$("miles").focus(); }

**else if**

(gallons <= 0) {

alert("Gallons must be greater than zero");

$("gallons").focus(); }

**else** {

$("mpg").value = calculateMpg(miles, gallons);

}

};

window.onload = **function()** {

$("calculate").onclick = processEntries;

$("clearEntries").onclick = clearEntries;

$("miles").ondblclick = clearEntries;

$("miles").focus();

};

</script>

</head>

<body>

<main>

<h1>Calculate Miles Per Gallon</h1>

<label for**=**"miles">Miles Driven:</label>

<input type**=**"text" id**=**"miles"><br>

<label for**=**"gallons">Gallons of Gas Used:</label>

<input type**=**"text" id**=**"gallons"><br>

<label for**=**"mpgx">Miles Per Gallon</label>

<input type**=**"text" id**=**"mpg" disabled><br>

<label>&nbsp;</label>

<input type**=**"button" id**=**"calculate" value**=**"Calculate MPG"><br>

<label>&nbsp;</label>

<input type**=**"button" id**=**"clearEntries" value**=**"Clear Entries"><br>

</main>

</body>

</html>