<!DOCTYPE html>

<html>

<head>

<title>Abacus Mental Math Practice</title>

<style>

body { font-family: Arial, sans-serif; text-align: center; margin: 30px; }

h1 { color: #2c3e50; }

button { margin: 5px; padding: 10px 15px; }

.problem {

font-size: 1.5em;

line-height: 1.8em;

white-space: pre;

text-align: right; /\* Align numbers to the right \*/

display: inline-block;

min-width: 80px; /\* Ensure enough space for triple digits \*/

}

input { padding: 8px; font-size: 1em; width: 150px; }

</style>

</head>

<body>

<h1>Flash Abacus Practice</h1>

<p>Select a level:</p>

<button onclick="startGame('single')">Single Digit (10 rows)</button>

<button onclick="startGame('double')">Double Digit (7 rows)</button>

<button onclick="startGame('triple')">Triple Digit (5 rows)</button>

<div id="game" style="margin-top: 20px;"></div>

<script>

let answer = 0;

function startGame(level) {

let rows, min, max;

if (level === 'single') { rows = 10; min = 1; max = 9; }

if (level === 'double') { rows = 7; min = 10; max = 99; }

if (level === 'triple') { rows = 5; min = 100; max = 999; }

let numbers = [];

let total = -1;

while (total <= 0) {

numbers = [];

for (let i = 1; i <= rows; i++) {

let num = Math.floor(Math.random() \* (max - min + 1)) + min;

if (i === 1) {

// First number always positive

} else if (i === 4) {

num = -num; // Row 4 always negative

} else {

if (Math.random() > 0.5) num = -num; // random +/- for others

}

numbers.push(num);

}

total = numbers.reduce((a, b) => a + b, 0);

}

answer = total;

let display = numbers.map(n => n.toString()).join("\n");

document.getElementById("game").innerHTML = `

<div class="problem">${display}</div><br><br>

<input type="number" id="userAnswer" placeholder="Your answer">

<button onclick="checkAnswer()">Check</button>

<p id="result"></p>

`;

}

function checkAnswer() {

let userVal = parseInt(document.getElementById("userAnswer").value);

let resultEl = document.getElementById("result");

if (userVal === answer) {

resultEl.innerHTML = "<b style='color:green'>Correct! 🎉</b>";

} else {

resultEl.innerHTML = "<b style='color:red'>Wrong. Correct answer is " + answer + ".</b>";

}

}

</script>

</body>

</html>