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1  <!-- Student Name:
2      Date:
3  -->
4  <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
5  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
6  <html xmlns="http://www.w3.org/1999/xhtml">
7  <head>
8  <title>Dice Roll</title>
9  <meta http-equiv="content-type" content="text/html;
    charset=iso-8859-1" />
10 </head>
11 <body>
12 <?php
13 $FaceNamesSingular = array("one", "two", "three", "four",
    "five", "six");
14 $FaceNamesPlural = array("ones", "twos", "threes", "fours",
    "fives", "sixes");
15 $FaceValues = array( 1, 2, 3, 4, 5, 6);
16
17 function CheckForDoubles($Die1, $Die2) {
18     global $FaceNamesSingular;
19     global $FaceNamesPlural;
20     $ReturnValue = false;
21
22     if ($Die1 == $Die2) { // Doubles
23         echo "The roll was double ", $FaceNamesPlural[
            $Die1-1], "<br />";
24         $ReturnValue = true;
25     }
26     else { // Not Doubles
27         echo "The roll was a ", $FaceNamesSingular[$Die1-1],
28             " and a ", $FaceNamesSingular[$Die2-1],
29             "<br />";
30         $ReturnValue = false;
31     }
32     return $ReturnValue;
33 }
34
35 function DisplayScoreText($Score, $Doubles) {
36     switch ($Score) {
37         case 2:
38             echo "You rolled snake eyes!<br />";
39             break;
40         case 3:
41             echo "You rolled a loose deuce!<br />";
42             break;
43         case 5:

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44         echo "You rolled a fever five!<br />";
45         break;
46     case 7:
47         echo "You rolled a natural!<br />";
48         break;
49     case 9:
50         echo "You rolled a nina!<br />";
51         break;
52     case 11:
53         echo "You rolled a yo!<br />";
54         break;
55     case 12:
56         echo "You rolled boxcars!<br />";
57         break;
58     default:
59         if ($Score % 2 == 0) { /* An even
60                                number */
61             if ($Doubles) {
62                 echo "You rolled a hard
63                     $Score!<br />";
64             }
65             else { /* Not doubles */
66                 echo "You rolled an easy
67                     $Score!<br />";
68             }
69         }
70         break;
71     }
72 }
73
74 $DoublesCount = 0;
75 $RollCount = 0;
76 $ScoreCount = array();
77 for ($PossibleRolls = 2; $PossibleRolls <= 12; ++
    $PossibleRolls) {
78     $ScoreCount[$PossibleRolls] = 0;
79 }
80
81 foreach ($FaceValues as $Die1) {
82     foreach ($FaceValues as $Die2) {
83         ++$RollCount;
84         $Score = $Die1 + $Die2;
85         ++$ScoreCount[$Score];
86         echo "<p>";
87         echo "The total score for roll $RollCount was
            $Score.<br />";
88         $Doubles = CheckForDoubles($Die1,$Die2);
89         DisplayScoreText($Score, $Doubles);
90         echo "</p>";

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91         if ($Doubles)
92             ++$DoublesCount;
93     } // End of the foreach loop for $Die2
94 } // End of the foreach loop for $Die1
95 echo "<p>Doubles occurred on $DoublesCount of the $RollCount
    rolls.</p>";
96
97 foreach ($ScoreCount as $ScoreValue => $ScoreCount) {
98     echo "<p>A combined value of $ScoreValue occurred
    $ScoreCount of $RollCount times.</p>";
99 }
100 ?>
101 </body>
102 </html>
103
104
```