// exercise1

<?php

$x = 10;

$y = 7;

echo "$x + $y = " . ($x + $y) . "<br>";

echo "$x - $y = " . ($x - $y) . "<br>";

echo "$x \* $y = " . ($x \* $y) . "<br>";

echo "$x / $y = " . ($x / $y) . "<br>";

echo "$x % $y = " . ($x % $y) . "<br>";

?>

// exercise 2

<?php

$month = date('F', time());

if ($month == "August") {

    echo "Since it's August, the weather is extremely hot";

} else {

    echo "Not August, so at least not in the peak of the heat.";

}

?>

//exercise 3

<?php

$i = 1;

while ($i <= 12) {

    echo "$i \* $i = " . ($i \* $i) . "<br>";

    $i++;

}

?>

// exercise 4

<?php

echo "<table border='1' cellspacing='0' cellpadding='5'>";

$i = 1;

while ($i <= 7) {

    echo "<tr>";

    $j = 1;

    while ($j <= 7) {

        echo "<td>" . ($i \* $j) . "</td>";

        $j++;

    }

    echo "</tr>";

    $i++;

}

echo "</table>";

?>