

LU01.L02 - myGeometryCalculator

Teilauftrag 1: Kreisfläche

```

scripts_m307 > lu01_script4fun > JS lu01_l02_myGeometryCalculator_t1.js > ...
 1  const pi = 3.14; //accuracy is sufficient enough for our purpose
 2  var r = 10; // 10 is a easy number, since easy to calculate
 3
 4  console.clear;
 5
 6  console.log("function circleArea: " + r + " = " + circleArea(r));
 7  /* ***** */
 8  /* Author: volkan.demir@bzz.ch, 02.03.23 */
 9  /* Call: circleArea (radius) */
10  /* Desc: Returns the area of a circle to a given radius */
11  /* ***** */
12  function circleArea(radius) {
13  |   return pi*radius*radius;
14  | }
15

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```

(base) volkandemir@Mac lu01_script4fun % node lu01_l02_myGeometryCalculator_t1.js
function circleArea: 10 = 314
(base) volkandemir@Mac lu01_script4fun % █

```

Teilauftrag 2: Kreisumfang

```

/* ***** */
/* Author: volkan.demir@bzz.ch, 02.03.23 */
/* Call: circleCircumference (radius) */
/* Desc: Returns the circumference of a circle to a given radius */
/* ***** */
function circleCircumference(radius) {
|   return 2*pi*radius;
| }

```

Teilauftrag 3: Dreiecksfläche

```

/* ***** */
/* Author: volkan.demir@bzz.ch, 02.03.23 */
/* Call: triangleArea (side, height) */
/* Desc: Returns the triangleArea to side and height */
/* ***** */
function triangleArea(side, height) {
|   return side*height/2;
| }

```

Teilauftrag 4: Dreiecksumfang

```
/* ***** */
/* Author: volkan.demir@bzz.ch, 02.03.23 */
/* Call: minus (zahl1, zahl2) */
/* Desc: Return the sum of two numbers. Z1 must be larger than z2 */
/* ***** */
function square(x) {
  |   return x*x;
}
```

Teilauftrag 5: quadratFlaeche

```
/* ***** */
/* Author: volkan.demir@bzz.ch, 02.03.23 */
/* Call: squareArea(side) */
/* Desc: Return the squareArea to a given side */
/* ***** */
function squareArea(s) {
  |   let area = s*s; // arbeite mit lokalen Variablen
  |   return area;
}
```

Teilauftrag 6: quadratUmfang

```
/* ***** */
/* Author: volkan.demir@bzz.ch, 02.03.23 */
/* Call: squareArea(side) */
/* Desc: Return the squareCircumference a given side */
/* ***** */
function squareCircumference(s) {
  |   return 4*s;
}
```

Teilauftrag 7: rechtEckFlaeche

```
/* ***** */
/* Author: volkan.demir@bzz.ch, 02.03.23 */
/* Call: squareArea(side) */
/* Desc: Return the squareCircumference a given side */
/* ***** */
function squareCircumference(s) {
  |   let cf = 4*s; // arbeite mit lokalen Variablen
  |   return cf;
}
```

Teilauftrag 8: rechteckUmfang

```
/* ***** */  
/* Author: volkan.demir@bzz.ch, 02.03.23 */  
/* Call: rectangleArea(side) */  
/* Desc: Return the rectangleArea to given sideS and sideB */  
/* ***** */  
function rectangleCurcumfence(sA, sB) {  
  let rcf = 2*(sA+sB);  
  return rcf;  
}
```



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