

LU01.L02 - myGeometryCalculator

Teilauftrag 1: Kreisfläche

```
const pi = 3.14; //accuracy is sufficient enough for our purpose
var r = 10; // 10 is a easy number, since easy to calculate
//console.log("function circleArea: " + r + " = " + circleArea(r));
/* ***** */
/* Author: volkan.demir@bzz.ch, 02.03.23 */
/* Call: circleArea (radius) */
/* Desc: Returns the area of a circle to a given radius */
/* ***** */
function circleArea(radius) {
  return pi*radius*radius;
}
```

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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