# ShapeAreasTest

## oneParameterTest\_circle

@Test  
public void oneParameterTest\_circle() {  
 System.*out*.println(Math.*PI*)**;** ShapeAreas shapeAreas = new ShapeAreas()**;** *assertEquals*(**50.26,** shapeAreas.oneParameter("C"**, 4**)**, 0.01**)**;**}

## oneParameterTest\_square

@Test  
public void oneParameterTest\_square() {  
 ShapeAreas shapeAreas = new ShapeAreas()**;** *assertEquals*(**16,** shapeAreas.oneParameter("S"**, 4**)**, 0.0**)**;**}

## oneParameterTest\_else

@Test  
public void oneParameterTest\_else() {  
 ShapeAreas shapeAreas = new ShapeAreas()**;** *assertEquals*(-**1,** shapeAreas.oneParameter("K"**, 4**)**, 0.0**)**;**}

## twoParameterTest\_rectangle

@Test  
public void twoParameterTest\_rectangle() {  
 ShapeAreas shapeAreas = new ShapeAreas()**;** *assertEquals*(**20,** shapeAreas.twoParameter("R"**, 4, 5**)**, 0.01**)**;**}

## twoParameterTest\_triangle

@Test  
public void twoParameterTest\_triangle() {  
 ShapeAreas shapeAreas = new ShapeAreas()**;** *assertEquals*(**12,** shapeAreas.twoParameter("T"**, 4, 6**)**, 0.0**)**;**}

## twoParameterTest\_triangle\_exception

@Test(expected = NullPointerException.class)  
public void twoParameterTest\_triangle\_exception() {  
 ShapeAreas shapeAreas = new ShapeAreas()**;** shapeAreas.twoParameter(null**, 4, 6**)**;**}

## twoParameterTest\_else

@Test  
public void twoParameterTest\_else() {  
 ShapeAreas shapeAreas = new ShapeAreas()**;** *assertEquals*(-**1,** shapeAreas.twoParameter("K"**, 4, 7**)**, 0.0**)**;**}

# FloorMeasuringToolTest

## main\_printShapeArea

@Before  
public void setUp() {  
 System.*setOut*(new PrintStream(outContent))**;**}  
@Test  
public void main\_printShapeArea() throws NoSuchMethodException**,** InvocationTargetException**,** IllegalAccessException {  
 Method method = FloorMeasuringTool.class.getDeclaredMethod("printShapeArea"**,** Scanner.class**,** Scanner.class)**;** method.setAccessible(true)**;** method.invoke(null**,** new Scanner("R")**,** new Scanner("4\n3"))**;** *assertTrue*(outContent.toString().contains("The area is 12.0"))**;**}