S.No	Prio.	Story	Test	Example	Notes
1	1	Evaluate expressions in a Scrapbook page.	<ol> <li>Declare an integer.</li> <li>Set variable.</li> <li>Declare an integer array</li> <li>Write a loop to initialize array</li> <li>Write a loop to calculate average</li> <li>Write a loop to revers an array.</li> <li>Write a lop to calculate first 10 Fibonocci numbers</li> <li>Write a loop that will put the first 50 integers divisible by the first five integers in five arrays.</li> </ol>	字 "int a; a = 5"= 5  Press 企彩I to Move to Expressions View	Lab 0 gives instructions on setting up a Scrapbook page.
2	2	Create a Point class as described in Lecture. Member variables x and y. Methods: Point(int int), move(), getX(), getY(). ToString produces p(n, m) where n is the value of x and m is the value of y.	1. Point p = Point(3, 5); 2. p 3. See p(3, 5) 4. p.move(4, 6); 5. p 6. See p(4, 6) 7.System.out.println( p.getX () + " " + p.getY()); 8 see 4 6	Press 企業I to Move to Expressions View  Press 企業I to Move to Expressions View	
3	3	Create a Circle class that uses your Point class as a center point and include a floating point radius. Add a getCenter() method.	1. Point p = new Point(1, 2); 2. Circle c = new Circle(p, 1.5); 3. c.getCenter() 4. See p(1, 2) 5. c.getRadius() 6. See 1.5	Circle c = new Circle(new Point(1, 2), 1.5); c.getCenter()   Circle c = new; c.getCenter()*= Point (id=167)  x = 1  y = 2  p(1, 2)  Press 0:% to Move to Expressions View	

4	4	Add a getRadius method to your Circle Class	1. Point p = new Point(1, 2); 2. Circle c = new Circle(p, 1.5); 3. c.getCenter() 4. See p(1, 2) 5. c.getRadius() 6. See 1.5	Circle c = new Circle(new Point(1, 2), 1.5); c.getRadius()  * Circle c = new; c.getRadius()*= 1.5  1.5  Press ORI to Move to Expressions View
5	5	Add a toString method to your Circle class that prints a c followed by parentheses followed by the center point, followed by a comma and the radius, followed by a close parenthesis.	1. Point p = new Point(1, 2); 2. Circle c = new Circle(p, 1.5); 3. c.toString() 4. See Circle [center=p(1,2), Radius=1.5]	Circle c = new Circle(new Point(1, 2), 1.5);
6	6	Add a move method to your Circle class.	1. Circle c = Circle(new Point(1, 2), 1.5); 2. c.move(new Point(3, 4)); 3. c 4 See Circle [center=p(3,4), Radius=1.5]	Circle c = new Circle(new Point(1, 2), 1.5); c.move(new Point(3, 4)); c   "Circle c = newPoint(3, 4)); c"= Circle (id=34)
7	7	Add an enlarge method to your Circle class	1. Circle c = Circle(new Point(1, 2), 1.5); 2. c.enlarge(2.5); 3. c 4 See Circle [center=p(3,4), Radius=2.5]	Circle c = new Circle(new Point(1, 2), 1.5); c.enlarge(2.5); c

8	8	Save your work in a Git repository on the class AWS server.	1. Create a local Git Repository 2. Add your project to the local Git repository. 3. Create a remote git repository 4. Store your materials in the remote git repository. 5. See the stored files	▼
9	9	Create a new class called Test that contains only a main() method that will make a Point and Circle object, then print those objects on the consol.	Select Test     Choose Run as from the context menu (the one you get when you right click)     Choose Java Class	© Console ☼ Problems @ Javadoc
10	10	Create a class, Quadrilateral, that stores four points.	<ol> <li>Create a main() method in Quadrilateral that creates a Quadrilateral.</li> <li>Pass the constructor four points.</li> <li>See the method compile and run.</li> </ol>	115
11	11	Overload toString() to print the four points of the Quadrilateral.	1. in the main() method call the toString() method. 2. See Quadrilateral[p(0, 1), p(3, 2), p(0, 0), p(4, 1)]	Console & Problems @ Javadoc Declaration / <terminated> Quadrilateral [Java Application] / Library/Java/JavaVi Quadrilateral [p(0, 1), p(3, 2), p(0, 0), p(4, 1)]</terminated>
12	12	Create a test called isRightShape() that returns true when the shape is a convex quadrilateral, false otherwise.	The JUnit test, QuadrilateralTest will run correctly.	Finished after 0.024 seconds  Runs: 8/8

13	13	Create a class, Trapezoid, that is a subclass of Quadrilateral	Trapezoid.	<pre>public static void main(String args[]) {     Point tl = new Point(1, 2);     Point bl = new Point(2, 2);     Point bl = new Point(0, 0);     Point br = new Point(4, 0);     Trapazoid q = new Trapazoid(tl, tr, bl, br);     System.out.println(q); }</pre>
14	14	Overload toString() to print the four points of the Trapezoid.	1. in the main() method call the toString() method. 2. See Trappazoid[p(1, 2), p(2, 2), p(0, 0), p(4, 0)]	Console S Problems @ Javadoc Declaration <terminated> Trapazoid [Java Application] /Library/Java/Java  Trappazoid [p(1, 2), p(2, 2), p(0, 0), p(4, 0)]</terminated>
15	15	Create a test called isRightShape() that returns true when a shape is a trapezoid (trapezium), false otherwise.	The JUnit test, TrapazoidTest test will run correctly.	Finished after 0.026 seconds  Runs: 7/7 S Errors: 0 S Failures: 0
16	16	Create a class, Parallelogram that is a subclass of Trapezoid.	points.	29⊕ public static void main(String args[]) {     Point tl = new Point(4, 3);     Point tr = new Point(10, 3);     Point bl = new Point(0, 0);     Point br = new Point(6, 0);     Porallelogram q = new Parallelogram(tl, tr, bl, br);     System.out.println(q); }
17	17	Overload toString() to print the four points of the Parallelogram.	1. in the main() method call the toString() method. 2. See Parallelogram[p(4, 3), p(10, 3), p(0, 0), p(6, 0)]	Console & Problems @ Javadoc Declaration A <pre> <terminated> Parallelogram [Java Application] /Library/Java/JavaV Parallelogram [p(4, 3), p(10, 3), p(0, 0), p(6, 0)] </terminated></pre>
18	18	Create a test called isRightShape() that returns true when a shape is a parallelogram, false otherwise.	The JUnit test, ParallelogramTest test will run correctly.	Finished after 0.025 seconds  Runs: 7/7 SErrors: 0 Sefailures: 0  Finished after 0.025 seconds  Runs: 7/7 Serrors: 0 Sefailures: 0

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19	19	Create a class, Rhombus that is a subclass of a Trapezoid.	Rhombus. 2. Pass the constructor four points.	<pre>28@    public static void main(String args[]) {</pre>
20	20	Overload toString() to print the four points of the Rhombus.	1. in the main() method call the toString() method. 2. See Rhombus [p(4, 3), p(9, 3), p(0, 0), p(5, 0)]	Console S Problems @ Javadoc Declara <a href="mailto:cterminated">cterminated</a> > RhombusTest [JUnit] /Library/Java/JavaVirt  Rhombus[p(4, 3), p(9, 3), p(0, 0), p(5, 0)]
21	21	Create a test called isRightShape() that returns true when a shape is a rhombus, false otherwise.	The JUnit test, RhombusTest test will run correctly.	Finished after 0.033 seconds  Runs: 7/7  Firors: 0 Failures: 0  Failures: 0
22	22	Create a class, Rectangle that is a subclass of a Parallelogram.	<ol> <li>Create a main() method in Rectangle that creates a Rectangle.</li> <li>Pass the constructor four points.</li> <li>See the method compile and run.</li> </ol>	28⊖ public static void main(String args[]) {  29
23	23	Overload toString() to print the four points of the Rectangle.	1. in the main() method call the toString() method. 2. See Rectangle[p(0, 0), p(0, 2), p(1, 0), p(1, 2)]	Console Signature Problems @ Javadoc Declaration Acterminated Rectangle (19, 10), p(1, 10), p(1, 2)]
24	24	Create a test called isRightShape() that returns true when a shape is a rectangle, false otherwise.	The JUnit test, RectangleTest test will run correctly.	Finished after 0.026 seconds  Runs: 7/7  Errors: 0  Failures: 0  Figoop.shapes.RectangleTest [Runner: JUnit 4] (0.000 s)

25	25	Create a class, Square that is a subclass of Rhombus.	<ol> <li>Create a main() method in Square that creates a Square.</li> <li>Pass the constructor four points.</li> <li>See the method compile and run.</li> </ol>	29⊕ public static void main(String args[]) { 30
26	26	Overload toString() to print the four points.	1. in the main() method call the toString() method. 2. See Square[p(0, 0), p(0, 1), p(1, 0), p(1, 1)]	Console Signare Problems @ Javadoc Declarate Library Square [p(0, 0), p(0, 1), p(1, 0), p(1, 1)]
27	27	Create a test called isRightShape() that returns true when a shape is a Square, false otherwise.	The JUnit test, SquareTest test will run correctly.	Finished after 0.028 seconds  Runs: 7/7  Errors: 0  Failures: 0  Finished after 0.028 seconds  Runs: 7/7  Failures: 0
28	28			