Test Plan – Triangle Times

Necessary cases to test will vary by problem.

As a starting point, write a test plan that looks for:

- the typical cases for the problem given
- the boundary conditions on all input values
- invalid inputs

Show the input sequence for a given case, and list the expected output.

Test Cases	
Description	**Given Input (in bold) and Expected Output**
Typical case Equilateral	Angle 1? **60** Angle 2? **60** Angle 3? **60** Equilateral
Typical case Isosceles (first and second angles)	Angle 1? **50** Angle 2? **50** Angle 3? **80** Isosceles
Typical case Isosceles (second and third angles)	Angle 1? **80** Angle 2? **50** Angle 3? **50** Isosceles
Typical case Isosceles (first and third angles)	Angle 1? **50** Angle 2? **80** Angle 3? **50** Isosceles

Test Cases	
Description	**Given Input (in bold) and Expected Output**
Typical case Scalene	Angle 1? **50** Angle 2? **60** Angle 3? **70** Scalene
Typical case Invalid angles (sum too small)	Angle 1? **50** Angle 2? **80** Angle 3? **49** Error
Typical case Invalid angles (sum too large)	Angle 1? **50** Angle 2? **80** Angle 3? **51** Error
Boundary condition Angle is zero (one below minimum acceptable value)	Angle 1? **80** Angle 2? **0** **Angle 2? 10** Angle 3? **90** Scalene
Boundary condition Angle is 179 (one above maximum acceptable value)	Angle 1? **179** Angle 1? 178 Angle 2? **1** **Angle 2? 1** Isosceles
Invalid input Bad input, first prompt	Angle 1? **grapes** Angle 1? **100** Angle 2? **50** Angle 3? **30** Scalene
Invalid input Bad input, second prompt	Angle 1? **50** Angle 2? **grapes** Angle 2? **100** Angle 3? **30** Scalene

Test Cases	
Description	**Given Input (in bold) and Expected Output**

Invalid input
 	
Bad input, third prompt
	`Angle 1? **50**`
	`Angle 2? **30**`
	`Angle 3? **grapes**`
	`Angle 3? **100**`
	`Scalene`