Week 1

1.
a.valid=9527
ANS: Correct
b. var number : Int = 5.6
ANS: Incorrect, 5.6 is float
c. var title = "Hello Kotlin!"
ANS: Correct
d. val content : String = null
ANS: Incorrect, null could not be a value.
e. val number : Double? = 556.6
ANS: Correct
f. var list: List<String>? = listOf(null, null)
ANS: Incorrect, it should be <String?>
g. var list: List<String?>? = listOf("Wayne", "Chen")
ANS: Correct
h. list.size
ANS: Incorrect, list may be null so need to modify as list?
i. list?.size
ANS: Correct

2.

```kotlin
var message = "Hello and welcome to AppWorks School :)"
when (message.length) {
    0 -> println("Aye!")
    in 1..39 -> println("Your grace.")
    in 40..56 -> println("My lord.")
    else -> println("You know nothing...")
}
```

ANS: You grace, because the length of message is 38 within 1..39 criteria.

3.

```kotlin
val array = // Question
val units = arrayOf("byte", "KB", "MB", "GB",
    "TB", "PB")
for ((i, value) in array.withIndex()) {
    println("1 ${units[i]} = ${value.toLong()} bytes\n")
}
```

Output:

```
1 byte = 1 bytes
1 KB = 1000 bytes
1 MB = 1000000 bytes
1 GB = 1000000000 bytes
1 TB = 1000000000000 bytes
1 PB = 1000000000000000 bytes
```

ANS: d. val array = Array(6) { 1000.0.pow(**it**) } , val array need to be a 6 dimensions array and each value is from 1000^0 ~ (the index of Array(6)) so use it parameter.