1.   Which of the following are valid variable names in java?

```
myAge ✔          x ✔ ✔
my variable ✗    $Tax ✔
3rdFile ✗        double ✗
public ✗         x*y ✗
averageAge ✔     value@start ✗
```

2.   Write a program that will calculate and display the area of a room with the following measurements:

4.25
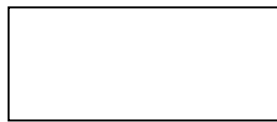
```
┌─────────────────┐
│                 │
│                 │   1.5
│                 │
└─────────────────┘
```

3.   Write a program which will calculate the volume of a box which has a length of 4 inches, a width of 2 inches, and a depth of 12 inches.
      *Volume = Length * Width * Depth)*

4.   Write a program to calculate and display the average of three exam results, 100, 98, and 65. (Average = all numbers added together, then divided by the amount of numbers)

5.   Write a program that will calculate the price of 4 cinema tickets at 7.50 each.

6.   John weighs 174 pounds. Write a program that will calculate and display his weight in stone and pounds (1 stone = 14 pounds).

      Hint - Use the modulus operator % to find the remainder

Extra Practice Question

Write a program that declares two variables – number1 and number2. The program will then calculate and print out:
a.   The result when adding the two numbers
b.   The result when taking number2 away from number1
c.   The product of the two numbers (multiplied)
d.   The result when dividing number1 by number2
e.   The remainder when dividing number1 by number2.

      Run your program once, then change the values in the variables, re-compile and run again. Use a calculator to check that it is giving you the right answers.