****Problem:****

Use SciPy to solve a linear algebra problem.

There is a test with 30 questions worth 150 marks. The test has two types of questions:

1. True or false – carries 4 marks each

2. Multiple-choice – carries 9 marks each

Find the number of true or false and multiple-choice questions.

**Solution :**

Let no of true/false question be **x** and no of mcq be **y** then,

x+y = 30 ----------------(1)

4x + 9y = 150 ----------------(2)

To find **x** and **y** we need to solve the linear equation.