**P3 GATE Math**

***Benchmark Test***

Duration: 20 minutes

**Section A**

**For each question, four options are given. One of them is the correct answer. Write your choice down in the brackets provided.**

Q1. ★★ The product of 2 numbers is 90. If one number is 13 more than the other number, find the sum of the 2 numbers.

Q2. ★★ There were twice as many ducks as chickens on a farm. After 105 chickens were sold, there were 8 times as many ducks as chickens left. How many chickens and ducks were there altogether on the farm at first?

Q3. ★★★ A pencil case costs as much as 5 assessment books. Alice spent $\frac{2}{7}$ of her money on 2 pencil cases and 4 assessment books. If she had spent all her money on assessment books instead, how many assessment books would she be able to buy?

Q4. ★★ Alex is 6cm taller than Sean. Mark is 8 cm taller than Alex. Sean is 10 cm taller than Ray. Jenny is 2 cm shorter than Ray. How much shorter is the shortest child than the tallest child?

Q5. ★★ At a food stall, there are 3 people queuing in front of Emma. There are 4 other people between Emma and Sally. If Sally is 6th from the last person, how many people are there in the queue?

Q6. ★★ A ball was dropped from the top of an 8m high wall. Each time it hit the ground, the ball rebounded half of the height from which it had fallen. Find the total height the ball had travelled when the ball hit the ground for the third time.

Q7. ★★ All the chairs in P3H class are occupied. The chairs are arranged in straight rows and each row has the same number of chairs. Alan is in the third row from the front as well as third row from the rear. He is the fourth from the left as well as the fourth from the right. How many pupils are there in class P3H?

Q8. ★★ Mr and Mrs Tan met Mr and Mrs Kim. They decided to pose for photographs together by sitting on a bench facing the camera. If the husbands must always be seated next to their wives, find out how many ways can they be seated on the bench.

Q9. ★★ 32 players participate in a international chess tournament on a knockout system. (That is, 2 players will play 1 match against each other and the winner will proceed to the next round.) What is the total number of matches that have to be played before a champion is found?

Q10. ★★★ When you add 49 to $\frac{1}{4}$ of my number, the result you get is double my number. What is my number?