MATHEMATICS – CLASS TEST

Class VIII | Chapter: Proportional Reasoning 1

MM: 13 **Time: 35 Minutes**

Q1. If $6 : 11 :: x : 9$, then the value of x is

(A) $\frac{11}{54}$ (B) $\frac{54}{11}$ (C) 54 (D) 11 **[1 mark]**

Q2. If 1 m^3 of gravel weighs 1500 kg, weight of 0.48 m^3 of gravel is

(A) 700 kg (B) 720 kg (C) 750 kg (D) 780 kg **[1 mark]**

Q3. If $a : b = 8 : 9$ and $b : c = 12 : 7, then\ find\ a : c$. **[2 marks]**

Q4. A recipe for 6 people requires 450 g of rice. How much rice would be required for 10 people? **[2 marks]**

Q5. On a map, 3 cm represents 12 km. Two cities are 8.5 cm apart on the map. Find the actual distance between them. **[2 marks]**

Q6. A class has 36 students. If the ratio of students who play football to those who play cricket is 5 : 4, and each student plays either football or cricket, how many students play each sport? **[2 marks]**

Q7. A mixture contains milk and water in the ratio 4 : 1. If 5 litres of water is added, the ratio becomes 2 : 1. Find the original quantity of milk and water. **[3 marks]**