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MM 20 **Time 45 min**

1 Mark Each

1. a and b vary directly if _____
2. p and q vary inversely if _____

2 Marks Each

3. Cost of 5 pens is Rs 65. Find cost of 13 pens.
4. A truck takes 5 hours to reach a destination by travelling at the speed of 60 km/h. How long will it take when the truck travels at the speed of 10 km/h?
5. 8 men finish a work in 40 days. Find time taken by 10 men to finish work.

3 Marks Each

6. A photograph of a virus enlarged 50,000 times attains a length of 2.5 cm What is the actual length of the virus ? If the photograph is enlarged 20,000 times only, what would be its enlarged length?

6 Marks Each

7. Principal = Rs 10000 , Rate = 10% per annum. Fill in the following table and find which type of interest (simple or compound) changes in direct proportion with time period.

Time Period	1 Year	2 Years	3 Years
Simple Interest			
Compound interest			

8. Suppose 2 kg of sugar contains 9×10^6 crystals.
How many sugar crystals are there in (i) 15 kg of sugar? (ii) 2.4 kg of sugar?
(iii) 54×10^6 crystals are contained in _____ kg

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