**MATHS SA – I TEST PAPER**

**CH -2, 8, 12, 13 TOTAL MARKS: 40**

**SECTION – A ANY 15**

**Do as directed:**

1. Solve:
2. 15 books weigh 6 kg. What will be the weight of 6 books?
3. Find the value of
4. Simplify:
5. Malvika gets 98 marks in her exams. This amounts to of the total marks. What are the maximum (total) marks?
6. Four-Fifths of a number is greater than three-fourths of the number by 4. Find the number.
7. 18 workers can build a wall in 26 hours, how many workers will be required to do the same work in 13 hours?
8. The sum of three consecutive odd numbers is 63. Find the numbers.
9. Write 0.0000021 in standard form.
10. 3 persons can build a wall in 4 days. In how many days 4 persons can build it?
11. Expand 1026.13 using exponents.
12. An item marked at Rs. 900 is sold for Rs. 800. Find the discount percent.
13. Simplify:
14. Solve:
15. Find the ratio of 5 m to 10 km.
16. Two quantities x and y are said to be in \_\_\_\_\_\_\_\_ if they increase or decrease together.
17. Which of the following is not a linear equation in one variable?

a) c)

b) d)

1. A car is travelling at a uniform speed of 75 km/hr. How much distance will it cover in 20 minutes?
2. Find the compound interest on Rs. 5000 at per annum for 2 years.
3. The selling price of an article is of the cost price. Then, what is the gain percent?

**SECTION – B**

1. The sum of the digits of 2 – digit number is 12. If the number formed by reversing the digits is less than the original number by 54. Find the original number.

Or

The present ages of Rachna and Vandana are in the ratio 5 : 7. Ten years from now their ages will be in the ratio 7 : 9. Find their present ages.

1. Mohan buys 9 pens for Rs. 36 and sells them at the rate of 12 pens for Rs. 52. Find the gain or loss percent.
2. Compute the compound interest on Rs. 12000 for years at per annum compounded semi annually.
3. If a box of sweets is divided among 48 children, they will get 7 sweets each. How many would each get if the number of children is reduced by 6?
4. Solve for m: .

Or

Simplify:

**SECTION – C**

1. A 5 m 60 cm high vertical pole casts a shadow 3 m 20 cm long. Find at the same time

(i) The length of shadow cast by another pole 10 m 50 cm high.

(ii) The height of the pole which casts a shadow 5 m long.

1. Find the compound interest on Rs. 24,000 at per annum for years compounded annually.

Or

The value of a machine is depreciating at the rate of per annum. Find its value after 3 years.

1. I have a total of Rs. 300 in coins of denomination Re 1, Rs. 2 and Rs. 5. The number of Rs. 2 coins is 3 times the number of Rs. 5 coins. The total no. of coins is 160. How many coins of each denomination are with me?
2. Simplify: .
3. Solve: .