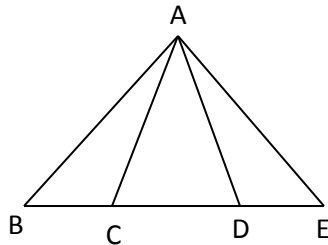# SECOND TERMINAL EXAMINATION – 2013

MATHEMATICS

Standerd : VIII

Score :50

Time : 2 hours

1. Joseph took out a loan of 50000 rupees at 12% from a bank. The bank later allowed a reduction of 3%. How much is the actual interest for the amount Joseph had borrowed for 1 year? (2)

2. Find the sum of x and x+1 and also the sum of x and x+2. What is the product of these sums? (2)

3. The perimeter of a rhombus is 68 centimetres and the length of one of its diagonals is 30 centimetres. Find the length of the other diagonals. (2)

4. Write down the product of x-1 and x-2. Use it to calculate 99×198. (2)

5. Draw a parallelogram with one side 7 centimetres; diagonals 10 centimetres and 8 centimetres. (3)

6. At Leena's home, there are hens and goats, 15 in all. The total number of legs is 50. How many hens does she have? (3)

7. .

In the figure, AC = AD. If BC = ED, prove that AB = AE. (3)

8. In quadrilateral ABCD, AB= 6cm, BC = 3cm, CD = 2cm, AD = 4cm, AC = 5cm. Construct quadrilateral. (3)

9. If x = -3, y = -4, find the value of 3x – 5y. (3)

10. Taking 6 times a number and subtracting 5 gives the same result as taking 4 times the number and adding 1. What is the number? (3)

11. If $x - \dfrac{1}{x} = 3$, then what is $x^2 + \dfrac{1}{x^2}$? (3)

12. The ratio of the number of Poems to the short stories in a bookstall is 3:5. There are 60 more short stories than Poems. How many poems and short stories are there in this book stall? (4)

13. The product of two numbers is $\dfrac{1}{4}$. What is the difference of the squares of their sum and difference? (4)

14. The rates of interest for gold mortgage advertised by three banks are follows:

    Bank A 12% interest

    Bank B 1.50 rupees per month for each 100 rupees

    Bank C 20 rupees per month for each 1000 rupees

    Which bank charges the least interest?   (4)

15. In trapezium PQRS, PQ = 7cm, QR = 3cm, RS = 5cm, PS = 4cm. Draw trapezium.   (4)

16. A man deposits 25000 rupees every June, starting at 2005 June. The bank gives simple interest at 8%. How much would he have in his account on 2010 may? How much would he get as interest alone?   (5)