

ONLINE MATHS CLASS- X – 34 (10 / 09 / 2021)

3 . SECOND DEGREE EQUATIONS - CLASS- 1 WORKSHEET

- 1) Consider the arithmetic sequence 5 , 8 , 11 , . . .
 - a) What is its common difference ?
 - b) What is its algebraic form ?
 - c) If the square of a term of this sequence is 6400 , what is its position ?
2. When each side of a square is increased by 5 metres , the area becomes 900 square - centimetres .
 - a) If the length of the original square is taken as x centimetres , what will be the length of the side of the new square ?
 - b) Compute the length of the original square .
3. A square ground has a 3 metres wide path all around it . The total area of the ground and the path is 1600 square metres .
 - a) If the length of the ground is taken as x metres , what will be the length of the side of the square formed by the ground and the path ?
 - b) Compute the area of the ground alone .
4. A box is made by cutting off small squares from each corner of a square of thick paper , and bending upwards . The height of the box is 10 centimetres and the volume is 4 litres
 - a) If the length of the paper is taken as x centimetres , what will be the side of the base of the box ?
 - b) Compute the length of the side of the paper .

(Hint : 1 litre = 1000 cubic centimetres)