KHM HIGHER SECONDARY SCHOOL VALAKKULAM

SELF EVALUATION, JAN - 2021

MATHEMATICS

STD:X.   **Time:45 Minutes.**   **Max.Marks:20**

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1. The algebraic expression of an arithmetic sequence is 5n+2, then   (2)

  a) Find the common difference.

  b) Form the arithmetic sequence

2. Even natural numbers below 9 are written in small papers and put   (2)

   Into a box.

  a) How many papers are in the box.

  b) One number is taken from the box at random, what is the probability

     of getting a prime number.

3. Two sides of a triangle are 16cm,12cm and the angle between   (2)

   Them is 40 degrees.

  a) draw a rough figure.

  b) find the area of the triangle .

    (sin 40=0.64, cos40= 0.77, tan40=0.84)

4.Draw a rectangle with sides 6cm and 3cm . Draw a square with the   (3)

   Same Area.

5. The products of two even natural number is 168. Find the numbers?   (3)

6.Consider the arithmetic sequence 4,10,16....   (4)

  a) Find the common difference?

  b)Find the 8th term ?

  c) check whether 100 is a term in the sequence.

  d) Find the sum of the 1st 15 terms of the sequence?

7. a)Draw X,Y axis and mark the points   (4)

     (3,0) ,(8,0),(11,4),(6,4).

  b) Join the marked points regularly and draw a quadrilateral?

  c) Find the length of the sides of the quadrilateral ?

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