U. S. Ostwal International School

Ostwal Wondercity, Boisar (E)
TERM -1

Name:_____   Date:
Subject: Maths   Roll No:
Grade: IV   Marks: 80
                                                                               Time: 2.5 hrs

General Instructions:
- **All questions are compulsory.**
- **Do not write the questions. Directly write the answers.**
- **Write the paper neatly. Reading time:15 minutes.**

Section -A.   (Any-4) (40 marks)

Question:-.1

A Find ratio between :-   (4)

   a)1 kg of 900 gram

   b)1 m 30 cm and 40 cm.

 B. The number 5,21,25 and x are in proportion. Find x.   (3)

 C. If cost of 6 soaps is 54 .Find the cost of 10 such soaps?   (3)

Question -2

A. Write the given set in set builder form :-   (3)

(iI A={7,14,21,28,35,42}

(ii)Y={Saturday, Sunday}

B. Find n (X)for each of the following.   (3)

 a) X ={x|x is a letter of INTERSECTION }

 b) X={x|9x+36=0,x€Z}

 c) X={x|x is an even number and also divisible by 0}

C. Identify the following set as finite infinite or empty set.   (4)

   a.   A={x|x£W and x2<26}.   b)B={2,4,6,8,10….}

   c) ={x|x is an even prime number}   d){x|x<0,x€W}

Question -3

 A How many segments are there in the following figure   (3)

 B .Is the set containing all the elements of two different finite   (3)

  set finite? Explain your answer.

 C. write true or false.   (3)

        a) Sets {a,e,I,o,u} and {u,e,o,I,a} are not same.:-

        b) If B is the set of letter in the word STATISTICS,

          then B ={S,T,A,I,C} :-

        c)A set of first four prime number in safe builder form is given by {2,3,5,7}

Question -4

A.In the adjoining figure identify all vertically opposite angle, (3)
and linear pairs.

B Classify following pairs of angles as congruent supplementary or complementary.

a)75°and 15°.   b)120°and 60°.   C)27°and27°. (4)

d)99°and81°

C. Construct the following angle using protractor:-160°. (3)

Section -2 (40 marks)

Question -5

A. i)Write first 4 multiple of 2:- (4)

    ii) Write first 4 multiple of 12:-

B. Find prime factor of 1500. (3)

C. Fine HCF using prime factorization method 64, 320. (3)

Question -6

A. Using protractor draw the angle of. (3)

    120° and bisect it.

B. Distinguish the following triangle on the basis of (3)

    their sides and angles.

C. Find z in the following triangle. (4)

Question -7

A. Which triangles can have equal median and altitude. (3)

B. Is it possible to draw an angle of 46° using a ruler and a compass. (3)

 What is the major of an angle which is closest to the given angle and can be drawn

    Using ruler and compass?

C .Name two objects around you that are : (4)

   a) square in shape:-   b) rectangle in shape:-

Question -8

A.How many right angle are made a complete angle (3)

B. If A and B are vertically opposite angle and a equal

   to 35° .Find the supplementary angle of B.

C The product of two different prime number is an odd

   Number. State the following statement as true or false?

 Also give reason to support your answer.

 i)One of the prime number is 2.

   ii) The product is more than 10.

ALL THE BEST