

U. S. Ostwal International School

Ostwal Wondercity, Boisar (E)

Term -1

Name:		Date:	
Subject: Math	S	Roll No:	
Grade: VI Marks: 80			
		Time: 2.5 hrs	
General Instru	ctions:		
All quest	tions are compulsory.		
 Do not v 	vrite the questions. Directly	write the answers.	
Write th	e paper neatly. Reading time	2:15 minutes.	
	Se	ction -A.	
	(Any-4	l) (40 marks)	
Question:1			
A Find ratio bet	ween :-		(4)
a)1 kg of 90	0 gram		
b)1 m 30 cn	n and 40 cm.		
B. The number	r 5,21,25 and x are in proport	ion. Find x.	(3)
C. If cost of 6 s	oaps is 54 .Find the cost of 10) such soaps?	(3)
Question	-2		
A. Write the given	set in set builder form :-		(3)
(il A={7,14,21,28	3,35,42}		
(ii)Y={Saturday, S	Sunday}		
B. Find n (X)for eac	h of the following.		(3)
a) $X = \{x \mid x \in X\}$	s a letter of INTERSECTION }		
b) $X = \{x \mid 9x = 0\}$	⊦36=0,x€Z}		
c) X={x xis	an even number and also div	visible by 0}	
C. Identify the follo	wing set as finite infinite or e	empty set.	(4)
a. $A=\{x \mid x \le x\}$	<i>N</i> and x2<26}. b)B={2,4,6,8	3,10}	
c)={x x is an ev	en prime number} d){x x<0,x	(€W}	
Question -3			
(a)		(c) $A B C$	
A How many s	egments are there in the follo	owing figure	(3)
B .Is the set containing all the elements of two different finite set finite?		(3)	
Explain your	answer.		
C. Write true o	r false.		(3)
a) Sets {a,	e,i,o,u} and {u,e,o,i,a} are not	: same.:-	
b) If B is th	ne set of letter in the word ST	ATISTICS,	
then B =	[S,T,A,I,C} :-		

c) A set of first four prime number in set builder form is given by {2,3,5,7} Question -4			
A.In the adjoining figure identify all vertically opposite angle, and linear pairs.	(3)		
B. Classify following pairs of angles as congruent supplementary or complementary.			
a)75°and 15°. b)120°and 60°. C)27°and27°.	(4)		
0)99 and 81	(2)		
C. Construct the following angle using protractor100.	(5)		
Question -5	(2)		
A. Divide 75 in the ratio 2.5. By the side of a triangle are in the ratio $4.7.9$. If the perimeter of			
B. the side of a triangle are in the ratio 4:7:9. If the perimeter of			
triangle is 400 cm find the side of triangle .			
18 chair	(5)		
Section -2 (40 marks)			
(Attempt any -4)			
Question -6			
Δ i)Write first A multiple of 2:-			
ii) Write first 4 multiple of 12:-	(')		
B. Find prime factor of 1500			
(3)			
C. Fine HCE using prime factorization method 64, 320			
Question -7			
A.Using protractor draw the angle of. 120° and bisect it.			
B. assignment of 5 cm. Then draw its perpendicular			
bisector which intersect the line segment at O			
C.In the adjoining figure, name the points which are.			
$\begin{array}{c} A \\ R \\ R \\ B \\ Q \end{array} \begin{array}{c} P \\ C \\$			
(i) in the interior of <abc-< td=""><td></td></abc-<>			
(ii) in the Exterior of <abc< td=""><td></td></abc<>			
(iii) on the boundary of <abc< td=""><td></td></abc<>			
Question -8			
A. Which triangles can have equal median and altitude.			
explain your answer.			
B. Is it possible to draw an angle of 46° using a ruler and			
a compass. 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 :				
a)square in shape:- b) rectangle in shape:-				
Question 9				
A.Find 45% of 5000				
B.The 12% of a number be 216. What is the number?	(3)			
C. Out of 30,000 voters in a democracy 65% voted.				
Find the number of voters who did not vote.	(3)			
Question -10				
A.How many right angle are made a complete angel	(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	(3)			
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				