MATHS HOLIDAYS HOMEWORK

CLASS VI

A) <u>Project: Fractions are fun!</u>   (Roll No. 1 to 12)

Subject-Math, computer, history

Driving question: How can fractions be explained to a layman?

1) Use a scrap book to prepare a project on FRACTIONS, keeping in mind following points

a. What are Fractions? Explain various types of fractions. Give some examples from real life using pictures where we use fractions e.g. pizza

b. Use paper cutting activities to explain fractions, addition of fractions and multiplication of fractions (do any two examples each)

c. Check out what are Egyptians fractions. Get some information on them.

<u>B)Project : Be an architect</u>   (Roll No. 13 to 22)

Subject-Math, computer, art

Driving question: How can you innovate your own tessellations?

Tessellation is a collection of shapes that fit together to cover a surface without overlapping or leaving gaps.   Tessellation is commonly seen in floor tiles. So design a floor of your room by tessellation. Write the shapes that do not tessellate and find the reason why they do not tessellate.

<u>C)Project : Time is Precious</u>   (Roll No. 23 to 32)

Subject-Math

Driving question: How is a clock and geometry interlinked?

Make a clock showing various types of angles.

Do the following questions on ruled sheets and put them in a handmade folder.
a) Kavya has to record the outcomes of her science experiment every four hours. The hour hand of the clock is pointing to 10 when he takes her twelfth record. What number on the clock does the hour hand point to when she takes her eleventh record?

.b) Look at the time table and answer the following questions:

		Ala Hazrat Express	Aravali Express	Ashram Express
Ahemdabad	a	19:45	11:30	06:05
	d	20:27	13:25	07:32
Surat	a	21:32	14:15	09:30
	d	21:47	14:25	09:35
Kota	a	22:10	15:17	10:10
	d	22:25	15:49	10:25
Jaipur	a	01:15	16:10	11:15

1. Which is the fastest train between Ahemdabad and Jaipur? _____
2. Which train takes the least time to reach Kota from Ahemdabad? _____
3. Which is the fastest train from Surat to Kota? _____
4. Which is the slowest train between Surat and Jaipur? _____

c) Find the number of degrees that the hour hand of a clock moves through between noon and 2:30 pm of the same day.

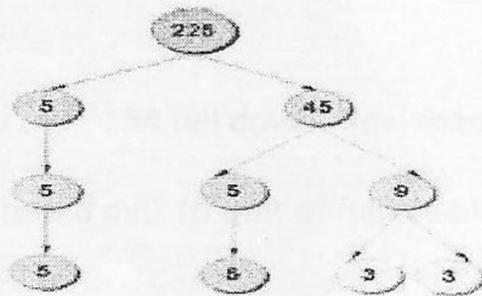D) Project : It's all about money   (Roll No. 33 to 46)

Subject-Math

Driving Question: How can money help you go around the world?

Five people from different countries approach you for help to change the currency they have equivalent to Indian system. Prepare a detail project file on where can you get the information about different countries. Draw the currencies of those 5 countries .Write their value equivalent to Indian system. If you are asked to design your own currency

a)What will be the value of that currency and symbol?

b) Why have you chosen that specific symbol and value? Give reason.

(II) **Model :** Make an attractive factor wall hanging

(III) Make a chart on any of the following topics:

S.No.	Chapter name	Roll No.
1.	Ch-1 Number System Ch -3 Whole Number	1- 5
2.	Ch -2 Factors and Multiples	6 – 10
3.	Ch-4 Integers	11 – 15
4.	Ch – 5 Fractions Ch – 7 Decimals	16 – 20
5.	Ch -8 Algebraic expression	21 – 25
6.	Ch – 16 Triangles Ch – 17 Quadrilaterals	26 - 30
7.	Ch – 18 Circles	31 – 35
8.	Ch -11 Line Segment, ray and Line Ch -13 Angles and their measurement	36 – 40
9.	Ch – 15 Polygons Ch-21 3-Dimensional shapes	41 - 47

ASSIGNMENT

Q1 Arrange the following number in descending order:

    (a)   1256g, 2.16kg, 2156g, 65.12kg, 6251g.

    (b)   847125, 844217, 821745, 872373, 828145

Q2 Convert the following

(a) 13.4 Kg into grams   (b) 2.8 litres into millitres   (c) 98.422 litres into millitres   (d) 18.45kg into grams

(e) 13.7metres into centimeters

Q3 There are 420 mangoes on a tree, 184 fell down. How many mangoes are still in the tree?

Q4 Find the ratio of the cost of toned milk to that of full cream milk if 1litre toned milk cost Rs.15 and 1 litre full cream milk costs Rs 25.

Q5 A vessel has 4 litres and 500 ml of curd. In how many glasses each of 25 ml capacity, can it be filled?

Q6 A merchant has Rs.78, 592 with her. She placed an order for purchasing 40 radio sets at Rs.1, 200 each. How much money will remain with her after the purchase?

Q7 Tony walks 365m every day. Find the distance covered by him in 42 weeks. Estimate the product nearest to hundreds.

Q8 Write the Roman numerals for the following:

(a) 45   (b) 99   (c) 114   (d) 263   (e) 398   (f) 998

Q9 Find the product of largest three digit number by smallest four digit number.

Q10 Find all the even factors of 54.

Q11 Write all multiples of 12 lying between 40 and 70.
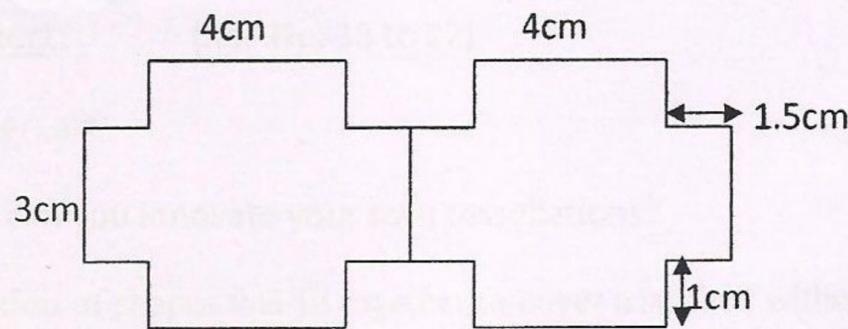
Q12 Find the LCM of the following numbers:

(a) 15, 35, 45   (b) 6, 16, 26   (c) 40, 48, 45   (d) 24, 16, 32

Q13 Find HCF of the following numbers:

(a) 108, 54,144   (b) 30.35.40   (c) 240,180,540

Q14 Find the perimeter of a triangle with sides 4cm, 5cm and 6cm.

Q15 Find the perimeter of the given figure

Q16 Find the area of a square whose side is 1m 25cm.

Q17 Find the perimeter of rectangle whose length is 10m25cm and breadth is 575cm. What will be the side of the square with same perimeter?

Q18 Joseph gets Rs.5000 per month. He spends Rs.4500 and saves the balance amount. Find the ratio of:
a) income to expenditure   b) expenditure to savings
c) savings to expenditure   d) savings to income.

Q19) Find the ratio of: a) 33:48   b) 2 l 750ml. to 750ml.   c) Rs.30 to Rs. 25.
                    d) Rs.2.25 to 75 p   .e) 3Kg.780g to 540g.   f)1m.20cm. to 3m 20cm

Q20) Anuj had 48 cups and 36 plates. Find the ratio of:
    a) cups to plates   b) plates to cups   c) cups to whole crockery.

Q21) Divide 35 in the ratio 3:2