Kendriya Vidyalaya Sangathan

Cluster 2
K.V. Hebbal,
K.V IISc,
K.V. No.1 Jalahalli,
K.V. No.2 Jalahalli,
K.V. Malleswaram

MATH-MAGIC

BOOK 4

Worksheets Planned For the Year 2011-12
INTRODUCTION

The word mathematics often brings frown on the face of children. They feel jittery to learn with numbers. To erase this perception of mathematics and to make it a joyful learning experience this workbook is brought out. This edition of the workbook is prepared specially to develop interest among children to learn mathematics without the feeling of burden (Generous Joy NCF 2005).

The following are the highlights of this workbook:

· Readiness exercises
· Child-centered Activities
· Exercises designed especially for the development of understanding, computation and problem-solving skills.
· Strengthening of the learning process though team/group based activities.

The activities in this book aim to fortify the concepts learnt by the child in class and encourage the child to think laterally by approaching each concept from different perspectives. The exercises have been carefully designed and arranged to enable the child to work them out individually.

I trust this workbook will prove beneficial to students, teachers and parents as well.

ACKNOWLEDGEMENT

We thank the Principal, Headmistress and Teachers of K.V. Hebbal for their guidance, support and co-operation. It is their encouragement that made it possible to bring out this workbook to reach out to the children of all the KV’s included in cluster 2.
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<th>No of W.S</th>
<th>PAGE</th>
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<td>1 TO 4</td>
<td>58 – 61</td>
</tr>
</tbody>
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Topic: Building with Bricks

WORK SHEET No. 1

Competency :- Formation of Numbers

1. Fill in the blanks.

   a. A brick has ______edges.
   b. A square has ______ sides.
   c. A rectangle has ______faces.
   d. A soap has ______faces.
   e. A cuboidal box has _______ corners.
   f. The number of faces in a brick is equal to ________.
   g. A dice has ___________ faces.
   h. A brick is a _______dimensional object.
   i. A triangle has ______sides.
   j. A triangle has ______ corners.

2. Count and write the number of faces you can see in each of the following figures and colour each of the faces using different colours.

   ![Images of geometric figures]

   Teacher’s Signature  
   Parent’s Signature
COMPETENCY: UNDERSTANDING BASIC CONCEPTS

1. Tick (✓) mark the face of the brick.

2. Observe the following pictures and answer the question below.

Which wall is stronger and why?

Teacher’s Signature

Parent’s Signature
WORK SHEET NO. 3

Date__________
Month_________

Competency : Ability to Compute

1. Calculate mentally and write the answer.
   1. If a brick cost Re 1, then 500 bricks will cost _______________.
   
   2. If the cost of a brick is Rs 2, then cost of 1000 bricks is Rs __________
   
   3. If the cost of 1 brick is Rs 5, then cost of 2000 bricks is Rs____________
   
   4. If the cost of I brick is Rs 3, then cost of 4000 bricks is Rs____________
   
   5. If the cost of 1000 bricks is Rs 3000 then the cost of 1 brick is
      Rs____________
   
   6. If the cost of 2000 bricks is Rs 8000, then the cost of 1 brick is
      Rs____________
   
   7. If the cost of 200 bricks is Rs 600, then the cost of 1 brick is
      Rs____________

2. COMPLETE THE TABLE

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Number of bricks</th>
<th>Cost of bricks</th>
<th>Number of bricks</th>
<th>Cost of bricks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1,000</td>
<td>Rs.6,000</td>
<td>500</td>
<td>Rs.__________</td>
</tr>
<tr>
<td>2</td>
<td>2,000</td>
<td>Rs.18,000</td>
<td>1,000</td>
<td>Rs.__________</td>
</tr>
<tr>
<td>3</td>
<td>6000</td>
<td>Rs.24000</td>
<td>3000</td>
<td>Rs.__________</td>
</tr>
</tbody>
</table>

Teacher’s Signature                  Parent’s Signature
WORK SHEET NO. 4

Date__________
Month_________

Competency : Problem Solving Ability

1. Make an arch using bricks.

2. Draw two wall patterns using bricks.

3. Make any two floor patterns using colour paper and stick it below.

Teacher’s Signature

Parent’s Signature
Topic: Long and Short

COMPETENCY :- FORMATION OF NUMBERS

1. Which is a better unit to measure these? (cm, m or km)
   1. Length of a pin
   2. Height of a house
   3. Distance the scooter travels
   4. Length of a park
   5. Length of a pen
   6. Height of your pet
   7. Length of a 500 rupees note
   8. Distance from Bangalore to Rajasthan
   9. Thickness of your lunch box
   10. Height of Qutub Minar
   11. Length of your car
   12. Distance from school to your house

Tick the longer one?

Teacher’s Signature

Parent’s Signature
WORK SHEET NO. 2

Date__________
Month__________

Competency Problem Solving Ability:

1. Find the length of the boundary using a thread. Measure the length in cm scale

   __________cm

2. Construct line segments of the following length
   a. 4cm
   b. 2cm

3. A hare and a tortoise are having a running race.
   Who is near the finishing line? ________________

   Teacher’s Signature
   Parent’s Signature
WORK SHEET NO. 3

Date__________
Month________

Competency: Ability to Compute

1. Find the measures

   a. 20cm less than 8m 40cm_____________________
   b. 80cm more than 4m 10cm____________________
   c. 15cm less than 6m 75cm_____________________ 
   d. 2m more than 8m 45cm______________________
   e. 7km more than 8km 300m___________________
   f. 600m less than 7km 950m__________________
   g. 9km 200m more than 5km 500m______________
   h. 6m 75cm less than 18m 90cm______________

2. Draw and colour

   An eraser is 15 cm long,
   a. Draw an eraser 3 cm less than the given measure.
   b. An eraser 6cm longer than the given measurement.

Teacher’s Signature  

Parent’s Signature
WORK SHEET NO. 4

Competency : Problem Solving Ability

A. Complete the table and answer the questions below

<table>
<thead>
<tr>
<th>sl.no</th>
<th>name of the plant</th>
<th>last months height</th>
<th>this months height</th>
<th>cms-grown</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TULSI</td>
<td>5cm</td>
<td>8cm</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>MANGO</td>
<td>10cm</td>
<td>13cm</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>BAMBOO</td>
<td>20cm</td>
<td>38cm</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>ROSE</td>
<td>32cm</td>
<td>32cm</td>
<td></td>
</tr>
</tbody>
</table>

a. The plant which has grown maximum is________________

b. The plant which has grown minimum is_____________, ____________

c. The plant which has not grown________________

d. The plant which has grown by 18cm is ________________

e. This month _______________ plant is taller than _______________, __________

b. Read the following table and answer the following question

<table>
<thead>
<tr>
<th>SL.NO</th>
<th>NAMES</th>
<th>DISTANCE OF SIXES BEATENIN A CRICKET MATCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SACHIN</td>
<td>90m</td>
</tr>
<tr>
<td>2</td>
<td>YUVARAJ</td>
<td>101m 5cm</td>
</tr>
<tr>
<td>3</td>
<td>GAMBHIR</td>
<td>52m 25cm</td>
</tr>
</tbody>
</table>

a. What is the difference between the distance hit by Sachin and Yuvaraj?
Topic: A Trip to Bhopal

Date______________

WORK SHEET No. 1

Month__________

Competency :- Understanding Basic Concepts:

1. Make any six, five- digit numerals using the given digits of numbers.

Note: digits can be repeated only once.

6,8,5,4

a.__________ b.__________

c.__________ d.__________

e.__________ f.__________

Competency : Formation of Numbers :

1. Use the digits to make greatest and the smallest number

Note: digits should not be repeated

<table>
<thead>
<tr>
<th>DIGITS</th>
<th>GREATEST NUMBER</th>
<th>SMALLEST NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>5,9,0,6,7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8,3,7,2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0,9,1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7,5,1,2,3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. Fill in the blanks

1. Smallest and the greatest 2-digit number______________, ____________

2. Smallest and the greatest 5-digit number ____________, ____________

3. Smallest and the greatest 3-digit number ____________, ____________

4. Smallest and the greatest 4-digit number ____________, ____________

Teacher’s Signature                       Parent’s Signature
WORK SHEET NO. 2

Date__________

Month__________

Competency : Ability To Compute:

A. FILL IN THE BLANKS :

1. _____ + 64979 = 64979
2. 4256 + _____ = 4256
3. 7864 X _____ = 0
4. 6753 - _____ = 0
5. 7 ÷ 7 = _____
6. 0 + 9537 = _____
7. 865 X 1 = _____
8. 2365 + 5879 = _____ + 2365
9. 6549 ÷ _____ = 6549
10. 0 ÷ 5649 = _____

B. Find the product without multiplying

a. 6250 x 100 = _____
b. 958 x 1000 = _____
c. 645978 x 10 = _____
d. 78 x 1000 = _____
e. 5654 x 10 = _____

Teacher’s Signature

Parent’s Signature
WORK SHEET NO. 3

Date__________
Month_________

Competency : Ability to Compute

A. Perform these operations

a. Add 2645, 65298
b. Find the sum of 2764+64645

b. Subtract 6986 from 10026
d. Find the difference between
  8945 and 65450

B. Find the product of the following numbers

a. 65 and 98
b. 12 and 79

Teacher’s Signature

Parent’s Signature
WORK SHEET NO. 4

Date__________  
Month__________

Competency : Problem Solving Ability

A.  

Write numbers which can be divided by 10, 3, 2 and 5 and comes between 20 and 35  

B.  

Madam gave 4 toffies each to 40 students of her class she has ten toffies left. How many toffies did she have?  

C. Study the table and answer the following question

<table>
<thead>
<tr>
<th>SL.NO</th>
<th>NAME OF ITEM</th>
<th>COST PER ITEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PIZZA</td>
<td>Rs.50</td>
</tr>
<tr>
<td>2</td>
<td>BURGER</td>
<td>Rs.35</td>
</tr>
<tr>
<td>3</td>
<td>SOFTDRINK</td>
<td>Rs.20</td>
</tr>
</tbody>
</table>

A. Neeta buys 2 burgers and a pizza she pays Rs.200 how much change does she get back?
Topic: Tick Tick Tick

WORK SHEET No. 1

Competency :- Understanding Basic Concepts:

1. Write the following in short form

A. 3\textsuperscript{rd} July 1975 _____________
B. 25\textsuperscript{th} November 2003 _____________
C. 1\textsuperscript{st} January 2007 _____________
D. 13\textsuperscript{th} March 2001 _____________
E. Your date of birth _____________
F. Independence Day _____________
G. Republic Day _____________
H. Christmas _____________ (write for current year)
I. Gandhi Jayanthi _____________ (write for current year)
J. New Year _____________ (write for current year)

2. Express the following in am or pm

a. 12 noon _____________
b. 12 midnight _____________
c. 4:45 in the evening _____________
d. 8’o clock in the morning _____________

Teacher’s Signature

Parent’s Signature

18
WORK SHEET NO. 2

Date__________
Month__________

Competency : Understanding Basic Concepts

A. Sequence the story according to logic and time using alphabets or numbers

ALICE IN THE WONDERLAND
WORK SHEET NO. 3

Date__________
Month_________

Competency : Ability to Compute:

A. Calculate the number of days

1. Between September 12 and September 23 _________________
2. Between January 29 and February 5 _________________
3. Between March 21 and April 1 _________________
4. Between April 3 and April 10 _________________
5. Between December 16 and December 28 _________________

B. Change the following to 24 hour clock

1. 2:30 afternoon= __________________
2. 5:15 morning=_________________
3. 6:45 evening=_________________
4. 8:20 night= ________________
5. 11:10 night=_______________
6. 9:40 night=_______________
7. 6:45 morning=_______________
8. 12:00 midnight=______________
WORK SHEET NO. 4

Date__________
Month_________

Competency: Problem Solving Ability

A. Rearrange these events in order and draw the time line and answer below

- 5.3.02 Stood up
- 16.7.01 First tooth
- 15.2.02 Crawled
- 7.6.02 Walked
- 12.7.01 Born
- 20.11.01 Sat up

How old was Seema?

a. When she walked? _____________

b. When she sat up? _____________

c. When she crawled? _____________

Teacher’s Signature

Parent’s Signature
Topic: The Way the World Looks

WORK SHEET No. 1

Competency :- Understanding Basic Concepts

A. Study the map carefully and answer the following questions

B. Tick (√) the correct answer:

1. What is closer to the temple?
   a. School  
   b. Anil’s house

2. What is closer to Anil’s house?
   a. Bus stop  
   b. Market

3. Which is closer to the park?
   a. Bus stop  
   b. park

Teacher’s Signature  
Parent’s Signature
WORK SHEET NO. 2

Date__________
Month_________

Competency : Understanding Basic Concepts

A. Draw lines to match the side view with the top view of the same object

B. Draw the following
   a. Side view of a bus   b. Top view of the teacher’s table   c. Front view of a car

Teacher’s Signature                Parent’s Signature
WORK SHEET NO. 3

Date__________
Month_________

Competency : Problem Solving Ability

A. Help kitty to reach his home.

Teacher’s Signature

Parent’s Signature
WORK SHEET NO. 4

Date__________
Month________

Competency : Problem Solving Ability

A. Help the frog to find the flowers

Teacher’s Signature

Parent’s Signature
Topic: The Junk Seller

WORK SHEET No. 1

Competency :- Ability to compute

1. Find the value of the following notes:
   a. 5 notes of Rs 100 = ________________
   b. 12 notes of Rs5 = ________________
   c. 10 notes of Rs.10 = ________________
   d. 15 notes of Rs.50 = ________________
   e. 6 notes of Rs.1000 = ________________
   f. 8 notes of Rs.20 = ________________
   g. 14 notes of Rs.2 = ________________

2. How many?
   a. 50 rupees notes are needed to make Rs.200 ________________
      Rs.800 ________________
   b. 20 rupees and 10 rupees notes are needed to make Rs.190 ________________
      Rs.270 ________________
   c. 1000 rupees notes are needed to make Rs.7000 ________________
      Rs.10000 ________________
   d. 500 rupees, 100 rupees and 5 rupees notes are needed to make
      Rs.620 ________________
      Rs.910 ________________

Teacher’s Signature

Parent’s Signature
WORK SHEET NO. 2

Date__________
Month_________

Competency : Ability to Compute

1. Multiply the following by split method:
   a. 25 x 98  
   b. 28 x 75  
   c. 86 x 45  
   d. 132 x 61

2. If a person earns Rs.73 a day, find how much he earns in:
   a. 7 days=_______________
   b. 6 weeks=_____________
   c. 89 days=______________
   d. 17 weeks=_____________

Teacher’s Signature  Parent’s Signature
**WORK SHEET NO. 3**

Date__________

Month________

**Competency : Ability to Compute**

1. Calculate the interest paid:

<table>
<thead>
<tr>
<th>SL.NO</th>
<th>AMOUNT</th>
<th>AMOUNT WITH INTEREST</th>
<th>INTEREST</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Rs. 600</td>
<td>Rs.680</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Rs.5000</td>
<td>Rs.5500</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Rs.956</td>
<td>Rs.1500</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Rs.678</td>
<td>Rs.1000</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Rs.723</td>
<td>Rs.850</td>
<td></td>
</tr>
</tbody>
</table>

2. Complete the Table:

<table>
<thead>
<tr>
<th>SL.NO</th>
<th>ITEM</th>
<th>BOUGHT FOR</th>
<th>SOLD FOR</th>
<th>PROFIT OR LOSS</th>
<th>BY HOW MUCH?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1 Kg Peas</td>
<td>Rs.32</td>
<td>Rs.40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2 Kg Apples</td>
<td>Rs.108</td>
<td>Rs.119</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>10 Pencils</td>
<td>Rs.36</td>
<td>Rs.43</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>30 Note books</td>
<td>Rs.125</td>
<td>Rs.188</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>1 Radio</td>
<td>Rs.300</td>
<td>Rs.125</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>1 T.V</td>
<td>Rs.10,000</td>
<td>Rs.9999</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Table</td>
<td>Rs.325</td>
<td>Rs.650</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Competency: Problem Solving Ability

1. SOLVE:
   a. Cost of one potato bun is Rs. 6. Ram bought 5 buns. He gave Rs 50 to the shopkeeper. How much money should he get back?

2. Read the following table and answer the following questions below:

<table>
<thead>
<tr>
<th>SL.NO</th>
<th>ITEM</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5 Erasers</td>
<td>Rs.35</td>
</tr>
<tr>
<td>2</td>
<td>15 Pencils</td>
<td>Rs.60</td>
</tr>
<tr>
<td>3</td>
<td>2 Markers</td>
<td>Rs.92</td>
</tr>
<tr>
<td>4</td>
<td>7 Staplers</td>
<td>Rs.110</td>
</tr>
<tr>
<td>5</td>
<td>4 Sharpener</td>
<td>Rs.3</td>
</tr>
</tbody>
</table>

   a. 30 erasers cost ________________
   b. 8 Staplers cost ________________
   c. 9 sharpeners cost ________________

Teacher’s Signature

Parent’s Signature
Topic: Jugs and Mugs

WORK SHEET No. 1

Competency: Formation of Numbers

A. Use the appropriate unit (L or ml) for the following:

a. Water in a small cup

b. Capacity of water in a water tank

c. Cough syrup in a spoon

d. Oil in an oil tank

e. Eye drop in an eyedropper

f. Water in the sump

g. Shampoo in sachet

h. Milk in a milk packet

Competency: Problem Solving Ability

A. Draw any three standard measuring jars used for measuring the liquid

Teacher’s Signature

Parent’s Signature
WORK SHEET NO. 2
Date__________
Month__________

Competency : Formation of Numbers

1. Complete the following
   a. 1 litre =_______ml
   b. _______ times 500ml =1litre
   c._______ times 100ml = 1litre
   d. _______ times 200ml = 1 litre
   e. _______ times 250ml = 1 litre
   f. ¾ of a litre =______ml
   g. ¼ of a litre= _______ml
   h. ½ of a litre=_______ml

B. Fill in the blanks

The jar holds __________ water than the glass tumbler (less or more)

The glass tumbler holds _______ water than the bottle (more or less)

Both the bottles hold the __________ quantity of water (same or different)

Teacher’s Signature                  Parent’s Signature
Competency: Ability to Compute

A. Look at the amount of water in each container. Label it and find the total

Answer: ____________________________________________________________

B. What is the total capacity of the 3 drums?

Answer: ____________________________________________________________

Teacher’s Signature

Parent’s Signature
WORK SHEET NO. 4

Date__________
Month_________

Competency : Problem Solving Ability

A. Study the table and Solve

a. water required by a family for different purposes in a day is as follows

<table>
<thead>
<tr>
<th>purpose</th>
<th>Amount of water used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Washing clothes and utensils</td>
<td>35 litres</td>
</tr>
<tr>
<td>bathing</td>
<td>86 litres</td>
</tr>
<tr>
<td>cooking</td>
<td>8 litres</td>
</tr>
<tr>
<td>garden</td>
<td>3 litres</td>
</tr>
</tbody>
</table>

B. Find:

A. The total amount of water used in a day.

B. The total amount of water used in a week.

C. The total amount of water used in a month.

Teacher’s Signature

Parent’s Signature
Topic: Carts and Wheels

Work Sheet No. 1

Competency :- Understanding Basic Concepts

1. Trace circles of different sizes using bangles, coins, bottle caps and such other circular objects. Colour the smallest circle in red and the biggest circle in green.

Teacher’s sign. Parents’ sign.
WORK SHEET NO. 2

Date__________
Month________

Competency : Formation of Numbers

ANSWER THE FOLLOWING:

1. Observe the surroundings and list any three articles which can be used to draw a circle.

--------------------------------------------------

Competency: Ability to compute

2. Draw the radius and diameter of the given circles and measure it and find the relationship between radius and diameter

Circle A

Radius ____ Diameter: _____

Circle B

Radius ____ Diameter: ____

Relationship between Radius and Diameter

--------------------------------------------

3. Which is the biggest wheel you have seen?

---------------------------------------------

Teacher’s sign. Parents’ sign.
WORK SHEET NO. 3

Date__________
Month________

Competency : Understanding Basic Concepts

1. Fill in the blanks (Hint: Circumference, diameter, radius, circle)
   a. A _____________ is a simple closed curve.
   b. _______________ is the line that runs between the circle and its centre.
   c. _______________ divides the circle into two equal halves.
   d. _______________ is the distance around the circle; it is the length of the circle.

2. Name the parts of the circle given below:

   [Diagram showing circle with labeled parts]

   O______________
   ST____________
   OC____________
   OT____________

Competency : Understanding Basic Concepts

1. Using compass, draw circles of the given radius.
   a) 3 cm
   b) 4 cm

Teacher’s sign.                              Parent’s sign.
WORK SHEET NO. 4

Date__________
Month________

Competency: Understanding basic Concepts

I. Use a compass to make 2 designs in 2 separate circles.

II. Fill in the column:

<table>
<thead>
<tr>
<th>RADIUS</th>
<th>DIAMETER</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 cm</td>
<td>12 cm</td>
</tr>
<tr>
<td></td>
<td>6 cm</td>
</tr>
<tr>
<td>8 cm</td>
<td></td>
</tr>
<tr>
<td>2 cm</td>
<td>10 cm</td>
</tr>
<tr>
<td>7 cm</td>
<td></td>
</tr>
</tbody>
</table>

[Hint: Diameter = 2 x Radius
Radius = diameter / 2]

III. Draw a circle with a radius 6 cm. With the same centre draw another circle of radius 4 cm. Within this circle, draw a third circle of radius 2 cm within this circle.

Teacher’s sign.  
Parent’s sign.
Topic: Halves and Quaters

WORK SHEET No. 1

Competency :- Understanding basic Concepts

1) Colour one part of each of the following and write the fraction

2) Colour two parts and write the fraction

3) Colour two and write the fraction

4) Colour three and write the fraction

5) Colour three and write the fraction

Teacher’s sign. 

Parents’ sign.
WORK SHEET NO. 2

Competency : Understanding Basic Concepts

1. Shade the given figures according to the fractions:

- \( \frac{1}{3} \)
- \( \frac{2}{3} \)
- \( \frac{3}{8} \)
- \( \frac{5}{8} \)
- \( \frac{10}{24} \)

Teacher’s sign.  Parents’ sign.
WORK SHEET NO. 3

Date__________
Month_________

Competency : Formation of Numbers

1. Fill in the numerals in the boxes:
   e.g In 4/6        is the numerator and 6 is the denominator

   a) In 3/8        is the numerator and is the denominator
   b) In 6/9        ,        is the numerator and is the denominator
   c) In 7/8        is the numerator and is the denominator
   d) In 8/9        is the numerator and is the denominator
   e) In 3/5        is the numerator and is the denominator
   f) In 2/6 is the numerator and is the denominator

2. Write the fractional numbers, whose Numerator and Denominators are:
   e.g N= 4 ; D = 6        N=7 ; D = 5
   N=6 ; D= 8
   N= 8 ; D= 9

Teacher’s sign.                    Parents’ sign
WORK SHEET NO. 4

Date__________
Month________

Competency : Formation of Numbers

1. Fill in the blanks:
   (a) $\frac{1}{2}$ of litre = __________ ml  
   (b) $\frac{3}{4}$ of kilogram = _______ gm

   (c) $\frac{1}{4}$ of a litre= ________ ml  
   (d) $\frac{3}{4}$ of litre = __________ ml

2. Show the following fraction in one whole and in collection:

<table>
<thead>
<tr>
<th>Fraction</th>
<th>whole</th>
<th>Collection</th>
</tr>
</thead>
<tbody>
<tr>
<td>$\frac{1}{4}$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$\frac{2}{4}$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$\frac{3}{4}$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$\frac{3}{5}$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$\frac{2}{8}$</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Teacher’s sign. Parents’ sign.
Topic: Patterns and Designs

WORK SHEET No. 1

Competency :- Understanding basic Concepts

1. Observe the number pattern and extend:
   a) 2462, 2464, 2468 , __________ , __________ , __________
   b) 7353, 7358, 7363, __________ , __________ , __________
   c) 3726, 3763, 3746, __________ , __________ , __________
   d) 4111, 5111, 6111, __________ , __________ , __________
   e) 6250, 6300, 6350, __________ , __________ , __________
   f) 4510, 4514, 4518, __________ , __________ , __________
   g) 2345, 2346, 2347, __________ , __________ , __________
   h) 9323, 9322, 9321, __________ , __________ , __________
   i) 5214, 5224, 5234, __________ , __________ , __________
   j) 1946, 1951, 1956, __________ , __________ , __________

2. Observe the pattern and extend:

Teacher’s sign.       Parents’ sign
WORK SHEET NO. 2

Date__________
Month__________

Competency : Understanding Basic Concepts

Complete the given patterns.

ii. Make a pattern using ▲ in the boxes given below.

Teacher’s sign. Parents’ sign.
WORK SHEET NO. 3

Date__________
Month_________

Competency : Understanding basic Concepts

1) Continue the pattern

2) 

3) 

4) 

5) 

6) AB  CD  EF  GH 

7) AB  BC  CD  DE 

8) 

9) 

10) 

Teacher’s Sign  Parent’s Sign
WORK SHEET NO. 4

Date__________
Month_________

Competency : Understanding basic Concepts

Observe the patterns and fill in the boxes

Teacher’s Sign
Parent’s Sign
Topic: Tables and Shares

WORK SHEET No. 1

Competency : Understanding Basic Concepts

1. Write the arrangements of these objects in row and columns (multiplication facts)

   a)  

   b)  

   c)  

2. Arrange in three different ways in rows and columns:

   a) 15 boys

   b) 28 balls

Teacher’s sign.  Parents’ sign.
WORK SHEET NO. 2

Competency: Ability to Compute

1. Write these in repeated addition form
   a) \(10 \times 1 = \)
   b) \(3 \times 2 = \)
   c) \(6 \times 5 = \)
   d) \(2 \times 3 = \)

2. Make the multiplication table of 13 using any two multiplication tables:

   Table of -

   Table of -

   Table of 13 -

3. Find the product of
   a) \(2 \times 5 = \)
   b) \(12 \times 0 = \)
   c) \(7 \times 8 = \)
   d) \(18 \times 50 = \)
   e) \(17 \times 1 = \)
   f) \(90 \times 10 = \)

4. Find the product of
   a) \(65 \times 35\)
   b) \(102 \times 84\)

Teacher’s sign. Parents’ sign.
Competency: Problem Solving Ability

a) Meera plants 50 saplings in 10 rows. How many saplings are there in each row?

b) You have to distribute 96 oranges equally in 3 baskets. How many oranges will there be in each basket?

c) Frame your question:
   A) There are 10 packets of sugar. Arun paid 100 rupees for all the packets. Question:

d) Try solve these:
   (Division is repeated subtraction)
   1) Raju collects 112 sea shells to make necklaces for his sisters. He requires 28 sea shells to make a necklace. How many necklaces did he make?

   2) Gangu made sweets for Diwali. He had 80 laddoos. He packs 4 laddoos in each small packet.
      a) How many packets did he make? ---------
      b) If he packs, 20 laddoos in bigger packets how many packets does he get?
WORK SHEET NO. 4

Date__________
Month________

Competency : Ability to Compute

1. Divide
   a) 28 / 4 =  
   b) 14 / 2 =  
   c) 36 / 9 =  
   d) 25 / 5 =  
   e) 100 / 10 =  
   f) 27 / 3 =  
   g) 44 / 4 =  
   h) 54 / 6 =  
   i) 64 / 8 =  

2. Anu wants change for Rs.100
   How many notes will she get if she wants change?
   a) All 50 rupee notes?  ________
   b) All 10 rupee notes?  __________
   c) All 20 rupee notes?  __________
   d) All 5 rupee notes?  __________

3) Divide and find the quotient:
   a) 65 / 5 =  
   b) 108 / 9 =  
   c) 428 / 2

Teacher’s sign.  
Parents’ sign.
**Topic: How Heavy? How Light?**

Date__________

**WORK SHEET No. 1**

Month__________

**Competency :- Understanding Basic Concepts**

I. Tick the one which has more weight.
   
   a) Elephant / Dog
   
   b) Book / Pencil
   
   c) Table / School Bag
   
   d) Scale / Chair

II. Which pan will go down show by drawing an arrow.

![Scales with weights]

<table>
<thead>
<tr>
<th>Weight (gm)</th>
<th>Loaf of bread</th>
<th>Book</th>
</tr>
</thead>
<tbody>
<tr>
<td>250</td>
<td>125</td>
<td>245</td>
</tr>
<tr>
<td>310</td>
<td>360</td>
<td>430</td>
</tr>
<tr>
<td>315</td>
<td>270</td>
<td>315</td>
</tr>
</tbody>
</table>

Teacher’s sign.  
Parent’s sign.
WORK SHEET NO. 2

Date__________
Month________

Competency: Formation of Numbers

1. Name 5 things that we usually buy
   in grams  in kilograms

1)  

2)  

3)  

4)  

5)

II. Fill in the Blanks

1. One kilogram = ___________ grams.

2. Half a kilogram = ___________ grams.

3. The heavier one among 100g and 10 kg is ____________

4. 1 kg = 5 x _________ grams.

5. 5 kg = ________ grams.

6. 2 kg = ________ grams.

7. 3 kg = ________ grams.

8. 7 kg = ________ grams.

9. 9 kg = ________ grams.

Teacher’s sign.

Parents’ sign.
WORK SHEET NO. 3

Date__________

Month__________

Competency : Understanding Basic Concepts

I. Fill in kilograms or grams:
   a) My friend weighs 25
   b) A sack of wheat weighs 50
   c) A packet of potato chips weighs 50
   d) A tube of fevistick weighs 100
   e) A sack of rice weighs 30

2. You are given the following weights. Using these weights you have to weigh out different amount of certain items. Which weights will you use?

<table>
<thead>
<tr>
<th>Amount to be weighed</th>
<th>1 kg</th>
<th>500g</th>
<th>200g</th>
<th>100g</th>
<th>50g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weighed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 kg 750 g</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 kg</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>900g</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 kg 300 g</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>150g</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 kg 50 g</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Teacher’s sign. Parents’ sign.
WORK SHEET NO. 4

Date____________
Month___________

Competency: Ability to Compute

I. Add the following in columns:
   a) 13 kg 750g and 24 kg 500 g
   b) 5 kg 5g and 7kg 17g
   c) 2kg 200g, 4kg 600g, 1kg
   d) 4 kg, 10kg, 200g

2. Write in columns and subtract:
   a) 38kg 500g from 45kg 250g
   b) 79kg 759g from 91kg 60g

Competency: Problem solving ability

1. Solve these:
   a) A vegetable - seller had 25kg of onions. He sold 20kg 250g. How much onions are left with him?

   b) Mrs. Kapoor has 2KG OF NEEM POWDER. She wants to put it into smaller packets of 200g each. How many packets will she get?
**Topic: Fields and Fences**

**WORK SHEET No. 1**

**Competency:** Ability to Compute

1. Which of the following fields has the longest boundary?

   - **FIELD A**
     - Perimeter: 22 m

   - **FIELD B**
     - Perimeter: 23 m

   - **FIELD C**
     - Perimeter: 18 m

   - **FIELD D**
     - Perimeter: 20 m

If the cost of fencing is Rs 25 per meter. How much does it cost to fence the fields?

Cost of fencing field A : 
Cost of fencing field B : 

Cost of fencing field C : 
Cost of fencing field D :

Teacher’s sign. 
Parents’ sign
WORK SHEET NO. 2

Date____________

Month_________

Competency: Ability to Compute

I. Find the perimeter of the following squares, whose sides measuring

A) 5 cm  
 b. 7 cm  
 c) 10 m

a) Find the perimeter of rectangle whose length and breadth are given.

(i) Length = 7 cm  
 breadth = 5 cm

(ii) Length = 12 cm  
 breadth = 8 cm

(iii) Length = 15 cm  
 breadth = 10 cm

Teacher’s sign.  
Parents’ sign.
WORK SHEET NO. 3

Date__________
Month__________

Competency : Ability to Compute

1. Find the boundary for the following figures:

2. Answer the following:

1. Find the boundary around a square field of 13m and 65 cm.

2. Find the distance around a rectangular table of length 50 cm and width of 20m.

3. Find the length of the barbed wire required to go around 4 times a rectangular field 63m and width of 35 m.

Teacher’s sign.  Parents’ sign.
Competency: Problem Solving Ability

1. A square garden is 200m long. How much wire will be needed for fencing around is  3 times?

2. Shika bought a roll of lace of 20m. She stitches it around 5 rectangular table clothes of length 1m 5 cm and breadth of 75 cm. What length of the lace will be left?

3. X runs a circular play ground of length 103m and 55cm and Y runs a play ground of length 97m and 85cm. What is difference in distance?

4. Ram walks around a square field of length 6m and 25cm and Tanish walk around a rectangular field of length 4m 80cm and breadth of 5m10 cm. Who walks a greater distance and by how much?

Teacher’s sign. 
Parents’ sign.
See the Chapati chart and answer the questions given below:

a) How many children like Ice cream?
   (i) One – third    (ii) One – fourth    (iii) Three- fourth

b) How many like Milk Shake?
   (i) One – third    (ii) Half    (iii) One  fourth

c) Which item are liked by equal number?
   (i) Milk shake and Juice   (ii) Milk shake and Ice cream
   (iii) Ice- cream and Juice

d) If total numbers of children are 405 then tell the number of children like:     Ice – cream (ii) Milk shake (iii) Juice

Teacher’s sign.                  Parents’ sign.
Competency: Ability to Compute

There are 160 people in an apartment. The different newspaper they read is represented in this chapatti chart:

Observe the chart and write

1. Which newspaper is read the most? ____________________________
2. Which newspaper is read the least? ____________________________
3. Find the total number of newspapers read by all? ________________

2. Observe this chart and answer. 1 △ = 4 children

a) Number of children who like red colour = _________
b) Number of children who like blue colour: ____________
c) Total number of students: ____________
WORK SHEET NO. 3

Competency: Ability to Compute

1. Number of balls sold by a shop on 6 days of a week: Monday 17, Tuesday 12, Wednesday 20, Thursday 15, Friday 5 and Saturday 11.

1) How many balls were sold on all the 6 days?

2) On which day the balls were sold more?

3) On which day less number of balls were sold?

4) How many balls were sold on Saturday than Friday?

5) Number of balls sold on Thursday is thrice the number sold on Friday. True/False

Teacher’s sign. Parents’ sign.
WORK SHEET NO. 4

Date__________
Month__________

Competency : Ability to Compute

1. The Number of loaves of bread baked in a bakery in four different months of a year are given below. Each picture represents 100 loaves.

January : BREAD BREAD BREAD
February : BREAD BREAD BREAD BREAD
March : BREAD BREAD BREAD
April : BREAD BREAD

Answer the following questions:

1) Name the months in which the number of loaves baked was the same?

2) How many loaves were baked in January ?

3) In which month the number of loaves baked was minimum ?

4) What is the number of loaves baked in all the four months?

5) How many loaves were baked in March ?

Teacher’s sign. Parents’ sign