

MATHEMAGIC ACTIVITY BOOK

CLASS - IV

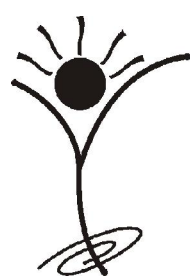
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SYLLABUS GUIDELINES

CLASS - IV

Based on CBSE, ICSE & GCSE Syllabus

1. Geometric Shapes & Spatial Understanding

- Draws a circle free hand and with compass.
- Identifies centre, radius and diameter of a circle.
- Uses Tangrams to create different shapes.
- Tiles geometrical shapes: using one or two shapes.
- Selects a tile among a given number of tiles that can tile a given region both intuitively and experimentally.
- Explores intuitively the area and perimeter of simple shapes.
- Makes 4-faced, 5-faced and 6-faced cubes from given nets especially designed for the same.
- Explores intuitively the reflections through inkblots, paper cutting and paper folding.
- Reads and draws 3-D objects, making use of the familiarity with the conventions used in this.
- Draws intuitively the plane, elevation and side view of simple diagram.

2. Numbers and Operations

- Writes multiplication facts.
- Writes tables upto 10x10.
- Multiplies two and three digit numbers using lattice algorithm and the standard (column) algorithm.
- Divides a given number by another number in various ways such as:
 - by drawing dots.
 - by grouping.
 - by using multiplication facts.
 - by repeated subtraction.
- Applies the four operations to life situations.
- Frames word problems.
- Estimates sums, differences and products of given numbers.

3. Mental Arithmetic

- Adds and subtracts multiples of 10 and 100, mentally.
- Completes multiplication facts by adding partial products, mentally (e.g. $7 \times 6 = 5 \times 6 + 2 \times 6$).

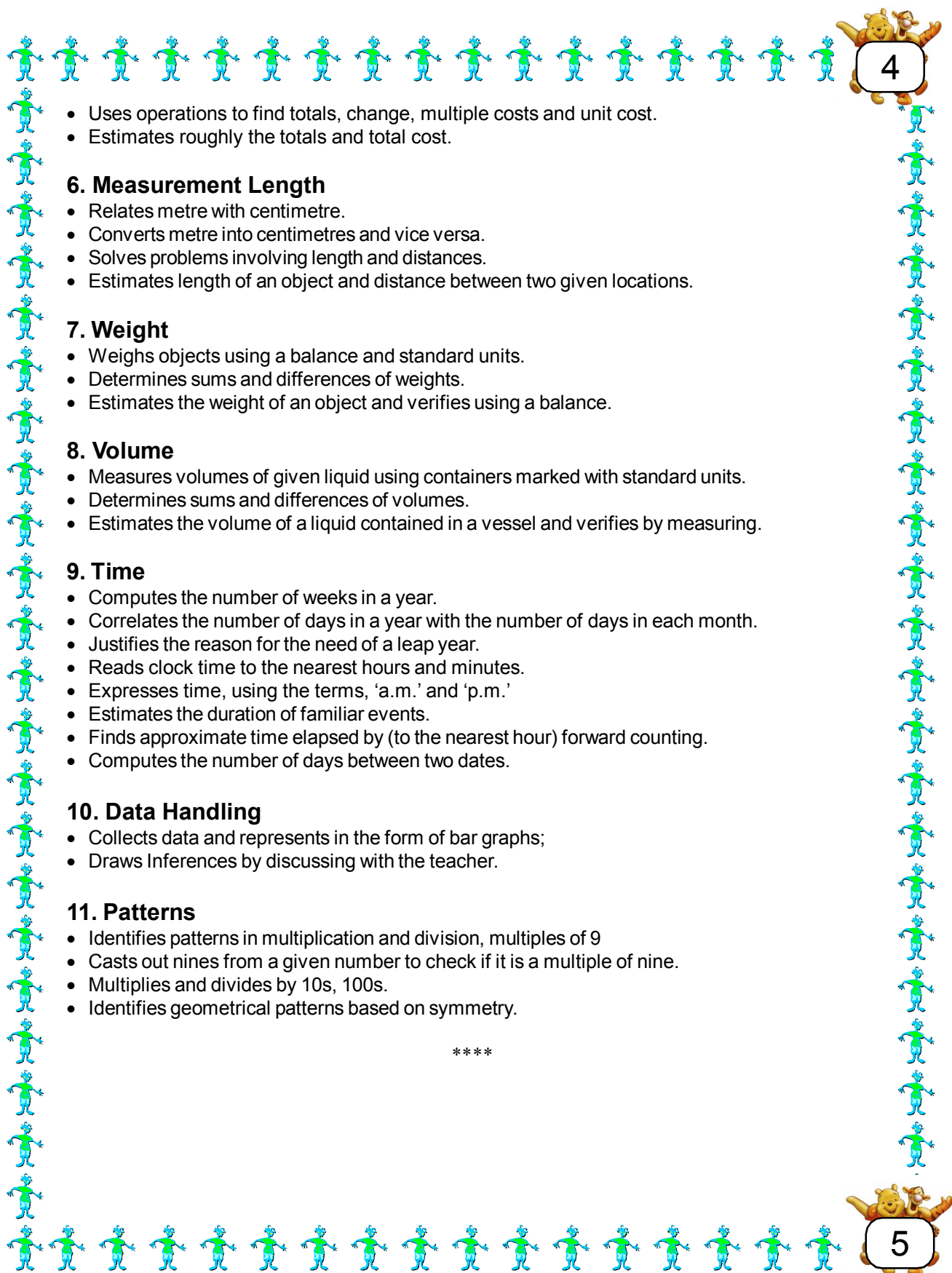
4. Fractional Numbers

- Identifies half, one fourth and three- fourths of a whole.
- Identifies the symbols, $\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$.
- Explains the meaning of $\frac{1}{2}$, $\frac{1}{4}$ and $\frac{3}{4}$.
- Appreciates equivalence of $\frac{2}{4}$ and $\frac{1}{2}$; and of $\frac{2}{2}$, $\frac{3}{3}$, $\frac{4}{4}$ and 1.

5. Money

- Converts Rupees to Paise.
- Adds and subtracts amounts using column addition and subtraction with regrouping.





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- Uses operations to find totals, change, multiple costs and unit cost.
- Estimates roughly the totals and total cost.

6. Measurement Length

- Relates metre with centimetre.
- Converts metre into centimetres and vice versa.
- Solves problems involving length and distances.
- Estimates length of an object and distance between two given locations.

7. Weight

- Weighs objects using a balance and standard units.
- Determines sums and differences of weights.
- Estimates the weight of an object and verifies using a balance.

8. Volume

- Measures volumes of given liquid using containers marked with standard units.
- Determines sums and differences of volumes.
- Estimates the volume of a liquid contained in a vessel and verifies by measuring.

9. Time

- Computes the number of weeks in a year.
- Correlates the number of days in a year with the number of days in each month.
- Justifies the reason for the need of a leap year.
- Reads clock time to the nearest hours and minutes.
- Expresses time, using the terms, 'a.m.' and 'p.m.'
- Estimates the duration of familiar events.
- Finds approximate time elapsed by (to the nearest hour) forward counting.
- Computes the number of days between two dates.

10. Data Handling

- Collects data and represents in the form of bar graphs;
- Draws Inferences by discussing with the teacher.

11. Patterns

- Identifies patterns in multiplication and division, multiples of 9
- Casts out nines from a given number to check if it is a multiple of nine.
- Multiplies and divides by 10s, 100s.
- Identifies geometrical patterns based on symmetry.

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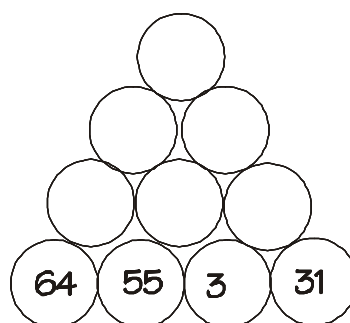
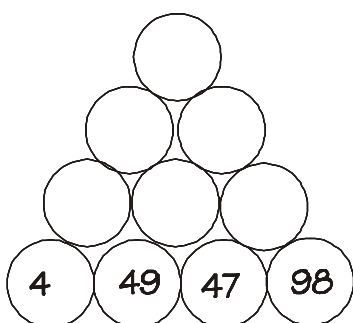
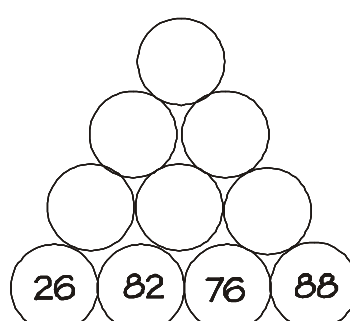
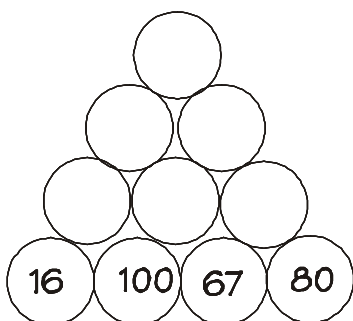
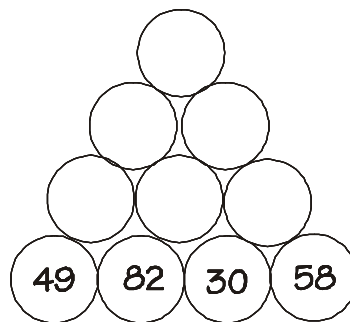
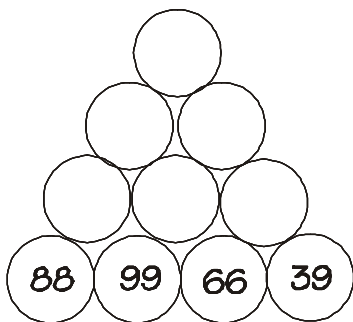
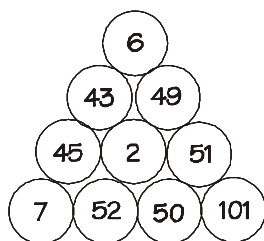
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Activity work sheet

Spot The Top

Find the **difference** of the two next-door numbers and write the total above. In this way Spot the Top.

One is done for you



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Activity work sheet

A Challenge

00:00

00:15

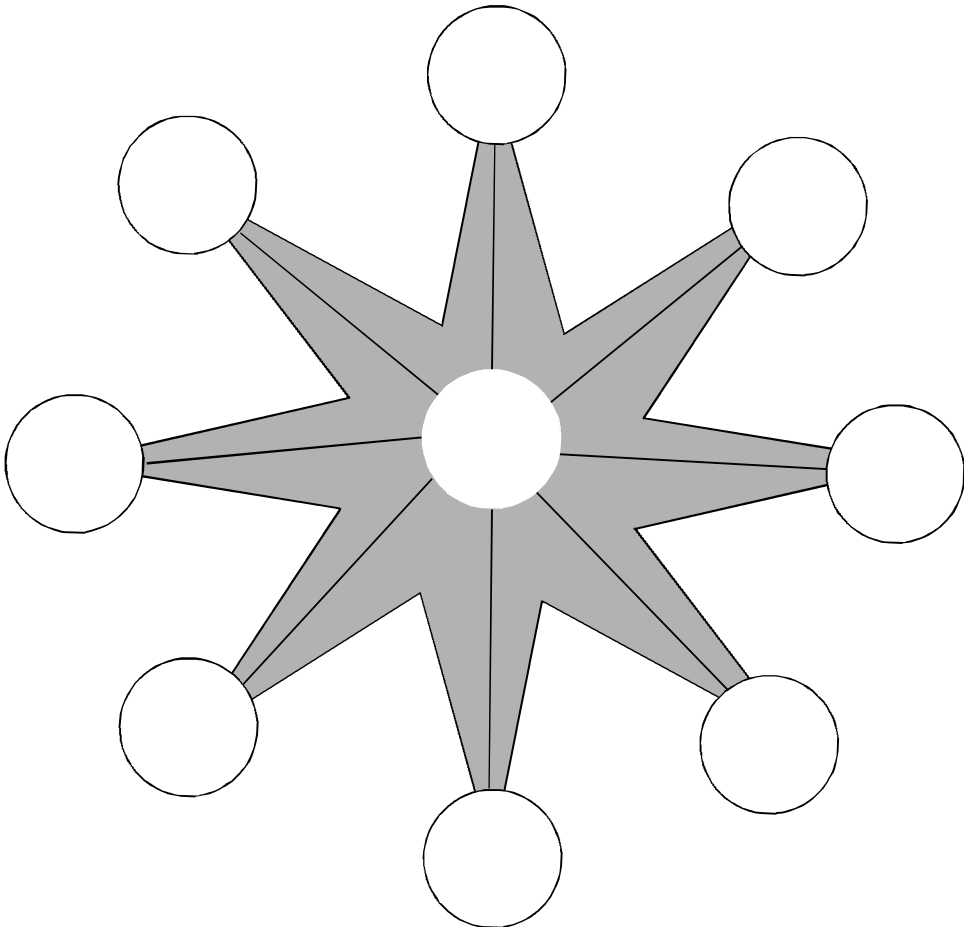
Start

Stop

This is a challenging one. Can you solve this in the given time?



Arrange the numbers 1 to 9 in such a way that the total of the numbers along each diagonal is 15 (Each number must be used only once).

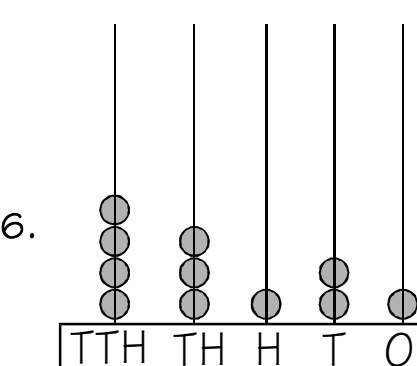
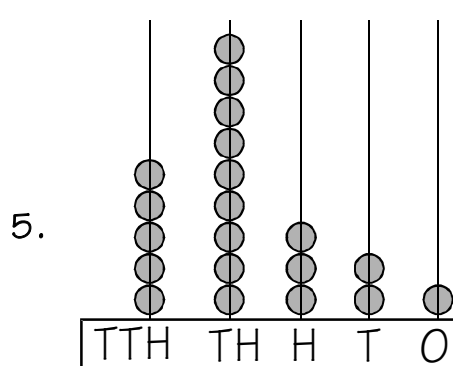
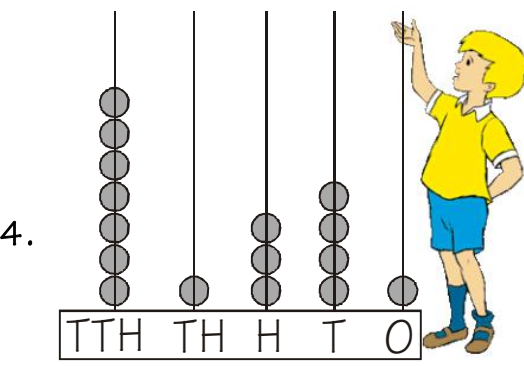
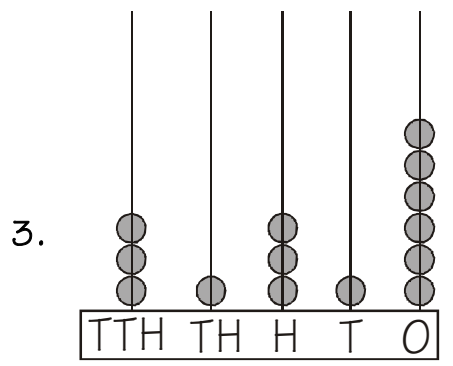
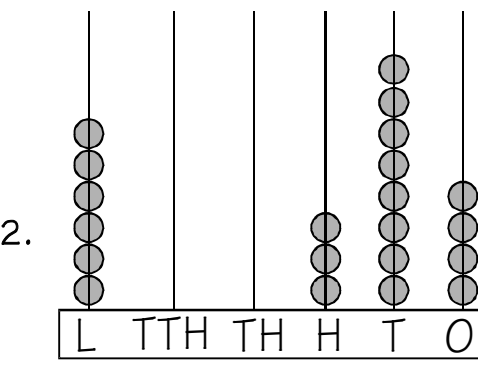
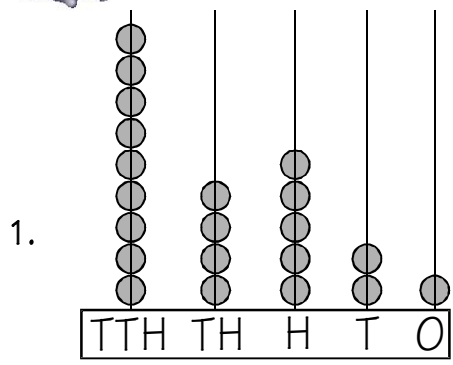


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Can you match the abacus with the number that is represented by it.



- ☐ 59321
- ☐ 71341
- ☐ 94521

- ☐ 600384
- ☐ 31316
- ☐ 43121

Activity work sheet

4

Code - Decode

Write 4 digit numbers using the following numbers only once at a time.
Also arrange them in ascending order.

7143

2658

3218

Priya took some calls of his brother Sunny while he was in the market.
But she wanted to play pranks on her brother and this was the message
she noted down. Please help sunny to trace out the number and enable
him to give a call back who called him?

(i) Call from kiran

Please call back need to have serious discussion -
Kirans number 10934 - 1123 606 ÷ 2 276 × 2

(ii) Asha from Library.

She will be free by 5 o' clock. She wants you to pick her from library.
Call her to decide the time of meeting. Her number.
Asha's number 843 - 143 10431 - 2000 633 ÷ 3

(iii) Nishant wants your homework diary. Tell him when he can collect
that by calling at 4905 × 2 18745 ÷ 5 10253 - 10195

Nishant's number.

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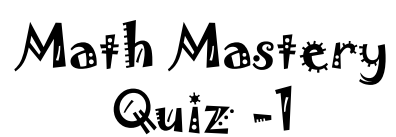
Activity work sheet



Priya’s mother gave her thirty cards having some numbers which were arranged in some order but the deck of card slipped from her hands and cards were shuffled. She only remember that the first card was 900 and the last card was 68200.
Can you help her to arrange rest 28 cards in the order.

55006	44080	62808	62880	50506	 55005
50006	11821	11128	44008	9090	
51151	20120	33110	36170	47700	 40080
21912	61190	59315	31617	7175	
50080	31171	23171	17171	41428	 47161





(i) Greatest number of 5 digit.

(ii) Smallest number of six digit.

(iii) How many zeroes are there in one lakh.

(iv) Place value of 5 in 395450.

(v) Next three number in the following pattern.

30321, 30326, 30331

(vi) Greatest number made by digits 3, 5, 0, 9.

(vii) Mark smallest and largest number 71392, 31614, 21615, 83172,

9000.

(viii) Predecessor of 6669.

(ix) Successor of 2019.

(x) What pattern is followed in following numbers ?

2168, 2173, 2178, 2183, 2188, 2193



Sorry ! Try Again



≥ 9 correct Answers



≥ 7 correct Answers



≥ 5 correct Answers



< 5 correct Answers

