

MATHEMAGIC ACTIVITY BOOK

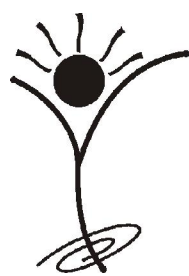
CLASS - I

Price : Rs. 60

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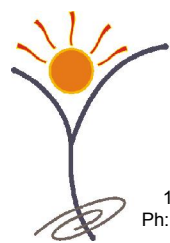
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PREFACE

Mathemagic Activities Book is a small step towards encouraging school students to develop love for mathematics. The activities given in this book will aid students learning under the framework of maths lab introduced by CBSE for classes I to X (and also for XI, XII in near future). We at EduHeal Foundation still need lot of help and encouragement from school teachers, Principal and parents in accomplishment of our goal. It is you who form the vital link between EduHeal Foundation and students as you can further encourage students to know about Mathematics on a day to day basis. We would also not sit idle but make efforts to increase interest :

- By publishing books like **Mathemagic Activities Books**.
- Create awareness by conducting Interactive Maths Olympiad.
- Teacher Training Programme in Speed Mathematics, Vedic Mathematics etc.
- Career Development Workshop for Students.
- Developing Virtual Maths Lab.
- Networking to enhance school/Govt./ Industry Interface.

EDUHEAL FOUNDATION wishes to thank the following for their support	
* EduSys Subject Experts * Mr. Ram Mohan Rao Former Information Advisor to the Prime Minister * Prof. S.S. Mathur Former Prof. & Head, Centre for Energy Studies, IIT Delhi, Institutional Co-ordinator, United Nations University, Tokyo, Japan * Minister, Education & Culture, Embassy of India, Washington DC, USA * Mr. Pervez Ali Khan NISCAIR, New Delhi * Dr. K. Sharma, Dept. of Biotechnology, AIIMS, Delhi * Dr. Saroj Mishra Prof. of Biotechnology, IIT, Delhi	* Dr. A.N. Sinha, MS, FAIS, FICS Former Consultant Surgeon & Head, VMMC & Safdarjung Hospital , Delhi * Dr. Dinkar Bakshi, MD Registrar, Deptt. of Paediatrics, Infirmary Hospital, Leeds, U.K. * Dr. Sandeep Dham, MD (Medicine) Clinical Asst. Prof., SUNY Health Centre, Brooklyn, New York, USA * Dr Saurabh Shukla MD, (AIIMS) Delhi (Presently associated with WHO Pulse Polio Programme) * Dr. Rajesh Kaushal MD (AIIMS) Delhi * Dr. N.K. Mendiratta. MD, Anaesthesia, VMMC & Safdarjung Hospital, Delhi * Dr. Nagendra P. MS (Orthopedics), Bangalore Medical College, Bangalore

For any query please contact Eduheal Foundation.

With best wishes

Dr. Sandeep Ahlawat
Director
Eduheal Foundation

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SYLLABUS GUIDELINES

CLASS - I

Based on CBSE, ICSE & GCSE Syllabus

1. Geometry

SHAPES & SPATIAL UNDERSTANDING

- Develops and uses vocabulary of spatial relationship (Top, Bottom, On, Under, Inside, Outside, Above, Below, Near, Far, Before, After)

SOLIDS AROUND US

- Collects objects from the surroundings having different sizes and shapes like pebbles, boxes, balls, cones, pipes, etc.
- Sorts, Classifies and describes the objects on the basis of shapes and other observable properties.
- Observes and describes the way shapes affect movements like rolling and sliding.
- Sorts 2 - D shapes such as flat objects made of card etc.

2. Numbers

DEVELOPING A SENSE OF NUMBERNESS, COUNTING AND OPERATIONS OF NUMBERS 1-9 AND ZERO

- Observes object and makes collections of objects.
- Arranges the collection of objects in order by
 - Matching and
 - One to one correspondence
- Counts the number of objects in a collection.
- Makes collection of objects corresponding to a specific number.
- Recognises and speaks numbers from 1 to 9.
- Uses numbers from 1 to 9 in counting and comparison. (Real objects and repeated events like clapping to be used for counting)
- Reads and writes numerals from 1 to 9.
- Adds and subtracts using real objects and pictures.
- Adds and subtracts the numbers using symbols '+' and '-'.
- Approaches zero through the subtraction pattern (such as $3 - 1 = 2$, $3 - 2 = 1$, $3 - 3 = 0$).

NUMBERS FROM (10-20)

- Forms Number sequence from 10 to 20.
- Counts objects using these numbers.
- Groups objects into a group of 10s and single objects.
- Develops the vocabulary of group of 'ten' and 'ones'.
- Shows the group of tens and ones by drawing.
- Counts the number of tens and ones in a given number.
- Writes the numerals for eleven to nineteen.



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- Writes numerals for ten and twenty.
- Compares numbers upto 20.

ADDITION AND SUBTRACTION (UPTO 20)

- Adds and subtracts numbers upto 20.

NUMBERS FROM 21 - 99

- Writes numerals for Twenty-one to Ninety nine. Groups objects into tens and ones.
- Draws representation for groups of ten and ones.
- Groups a number orally into tens and ones.

MENTAL ARITHMETIC

- Adds two single digit numbers mentally.

3. Money

- Identifies common currency notes and coins.
- Puts together small amounts of money.

4. Measurement

LENGTH

- Distinguishes between near, far, thin, thick, longer/taller, shorter, high, low.
- Seriates objects by comparing their length.
- Measures short lengths in terms of non-uniform units (in the context of games e.g. 'Gilli Danda' and 'marble-games').
- Estimates distance and length and verifies using non-uniform units (e.g. hand span etc.)

WEIGHT

- Compares between heavy and light objects.

5. Time

- Distinguishes between events occurring in time using terms - earlier and later.
- Gets the qualitative feel of long & short duration, of school days v/s holidays.
- Narrates the sequence of events in a day.

6. Data Handling

- Collects, represents and interprets simple data such as measuring the arm length or circumference of the head using a paper strip.

7. Patterns

- Describes sequences of simple patterns found in shapes in the surroundings and in numbers, e.g. stamping activity using fingers and thumb.
- Completes a given sequence of simple patterns found in shapes in the surroundings and in numbers.

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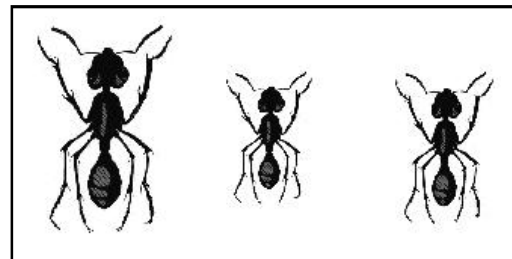
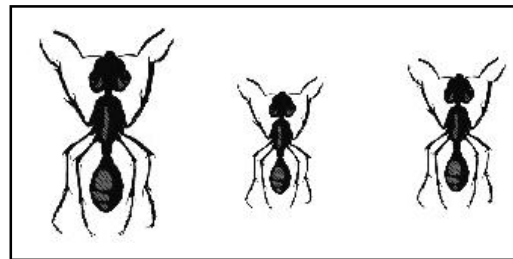
Activity work sheet



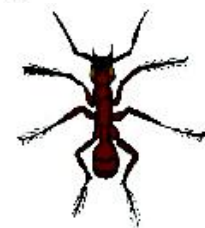
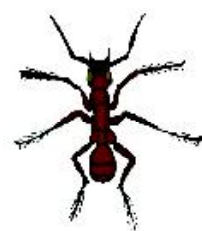
Ant Math Fun

Circle the ant that is smallest

Circle the ant that is the largest



Match the ants that are alike.



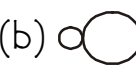
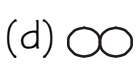
Sample Questions

SECTION A - Mental Ability

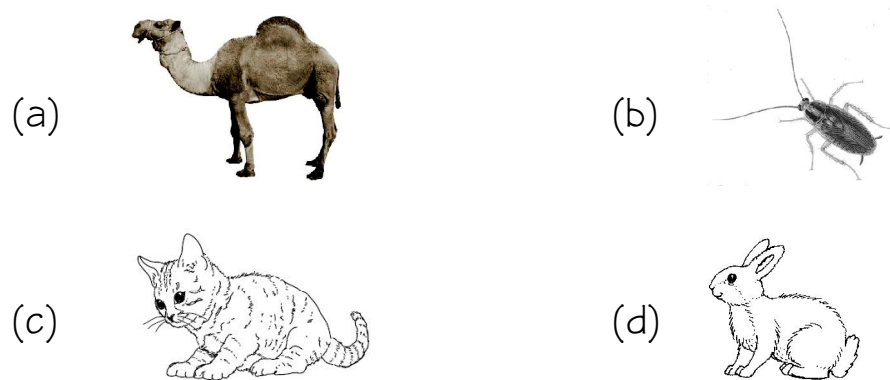
1. See the pattern.



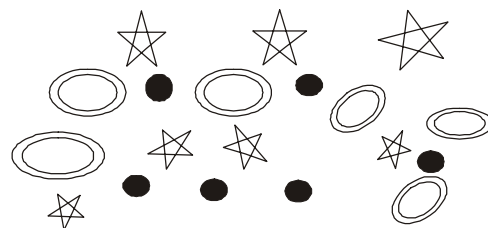
Which will come next in the pattern?

- (a)  (b)  (c)  (d) 

2. Which of the following is heaviest?



- 3.



How many stars are there in the figure?

- (a) 6 (b) 5 (c) 7 (d) 10

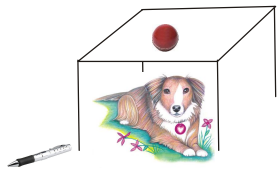
4. Which letter has oval shape.

- (a) **P** (b) **O** (c) **V** (d) **F**



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5. See the picture



Which object is on the table?

(a) Pen (b) Dog (c) Ball (d) None of these

6. Which number will be the NEXT in series?

36, 37, 38, 39, 40,

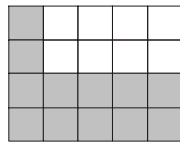
(a) 47 (b) 41 (c) 49 (d) None of these

7. How many letters are there in the given word.?

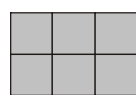
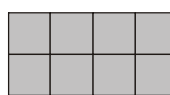
MATHEMATICS

(a) 10 (b) 11 (c) 12 (d) 9

8.



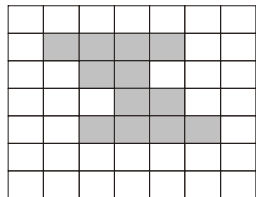
How many blocks you will need to fill the box.

(a)  (b)  (c)  (d) 

9. Which number you can make with 3, 5 and 9?

(a) 3590 (b) 953 (c) 5903 (d) 5093

10.



How many block are empty in the figure ?

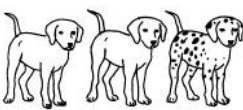
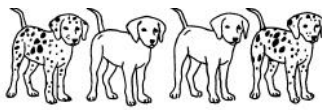
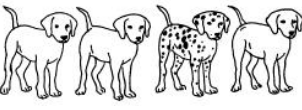
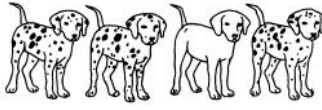
(a) 20 (b) 37 (c) 9 (d) 2



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SECTION B - Mathematics

11. In which figure three dogs are shaded?

- (a)  (b) 
- (c)  (d) 

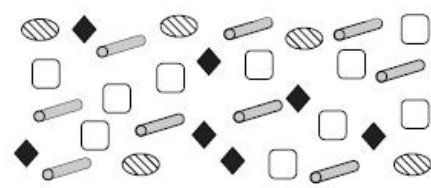
12.



Kavita puts 4 apple in each bucket. How many total apples are there ?

- (a) 15 (b) 19 (c) 20 (d) 24

13.



Which is present in the largest number?

- (a)  (b)  (c)  (d) 

14. Which is correct?

(a)    +   = 5 

(b)    +   = 8 

(c)    +   = 7 

(d) All of these

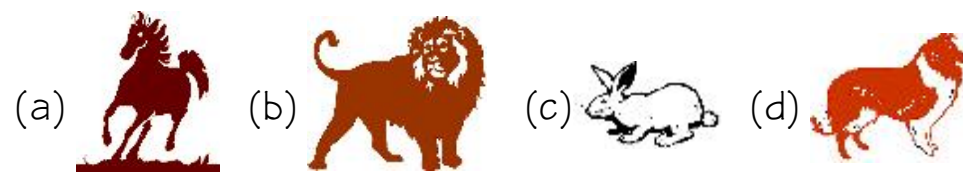


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15. What is the result of $7 + 3$?

- (a) 9 (b) 10 (c) 13 (d) 18

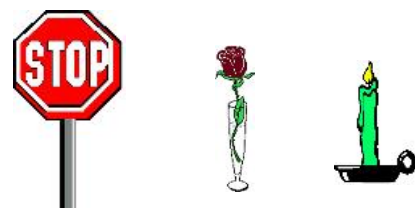
16. Look at the animals below. Which is the smallest animal?



17. Which of the following is **seventeen** ?

- (a) 13 (b) 7 (c) 17 (d) None of these

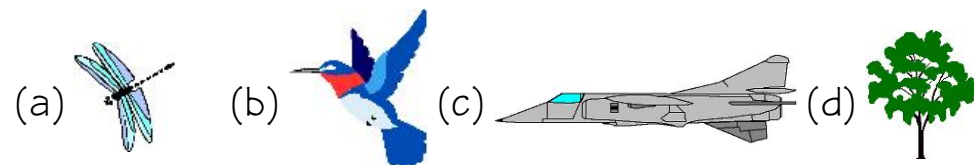
18.



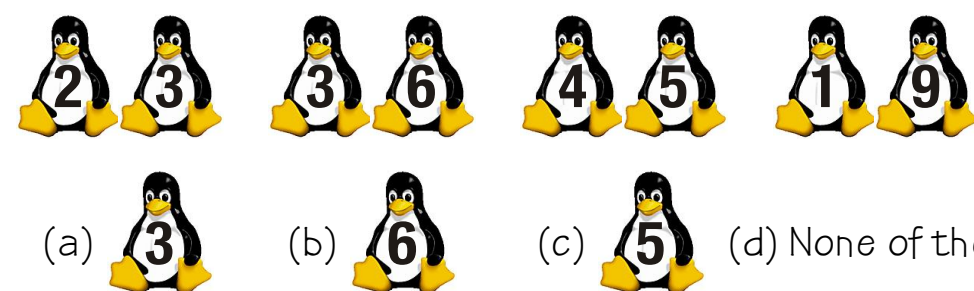
Stop signal is tallest. Is this statement ?

- (a) True (b) False (c) Cannot say (d) Don't know

19. The heaviest object is .



20. Which penguin is at tens place ?



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