

**New**

# Perfect Composite Mathematics

Including Activity Worksheets

**CLASS - I**

[In accordance with the latest NCF prepared by the NCERT, New Delhi]

**SPECIAL EDITION FOR ARMY SCHOOLS**

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# Preface

This book is one from the series **New Perfect Composite Mathematics** and is based on the syllabus developed by the National Council of Educational Research and Training (NCERT), New Delhi.

The subject matter is produced in such a way that it relates to the environment and focuses on the development and understanding of the students. It also aims to improve their thinking and reasoning skills. All books in this series are activity based and are written in a simple language.

The subject matter has been presented in graded form. The age, the learning ability and the mathematical difficulties faced by the students at all levels have been kept in mind while presenting difficult concepts.

The syllabus includes the four fundamental operations, namely, addition, subtraction, multiplication and division. These operations have been dealt in a step-by-step approach to enable students understand exactly what is to be done. The traditional and stereotype questions have been avoided.

## Salient Features of this book are:

- The book covers the entire prescribed syllabus.
- Numbers up to 100 have been introduced by observing and counting objects.
- Focus has been on counting of objects and making their collections to explain the concept of ones and tens.
- Addition and subtraction of 2-digit numbers without regrouping (carrying) and without decomposing (borrowing) have been taught.
- Concept of a multiplication has been explained by means of multiplication tables.
- Mental problems, wherever possible, have been incorporated to enhance the thinking power of the tiny tots.
- The introduction of length, weight, money and time has been done by means of examples from daily life situations and illustrated through attractive pictures.
- 2-D and 3-D figures have been introduced.
- Due care has been taken to present data handling topic by taking simple and interesting examples for students of this age group.
- Patterns in numbers and shapes have also been included.
- **Questions in the form of quizzes and puzzles** have been given to avoid stereotype questions.
- To avoid the stress of examination, question papers have been replaced by introducing **Activity Worksheets**.
- Challenging problems under the heading **Challenge** have also been included.

The books of the series will surely prove to be useful for the students.

I am thankful to the teachers for adopting our books and encouraging us to bring out the new edition.

I would like to thank Mrs. Sunita Jai Singh and Mrs. Shuchi Goyal for their valuable suggestions which helped me in bringing the series in the present form.

Last but not the least, I am thankful to the publishers who have taken great pains in making the books reader-friendly.

Suggestions for further improvement of the series will be gratefully acknowledged.

AUTHOR



APC BOOKS

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# I. Pre-Number Concepts – Part I

## Bigger – Smaller



Bigger



Smaller



Smaller

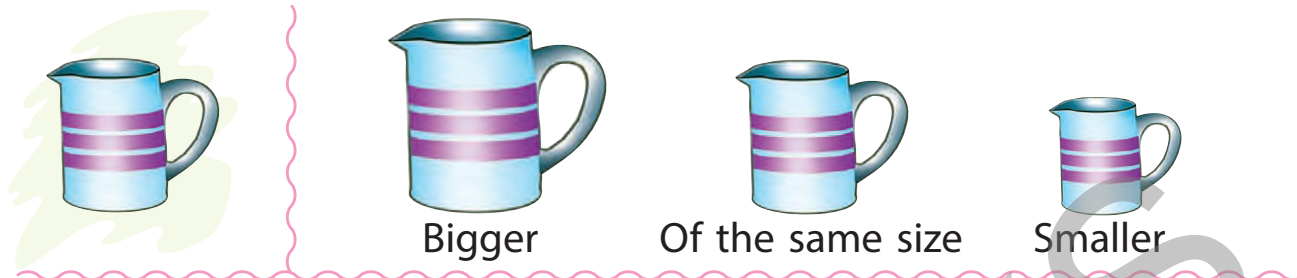


Bigger

Tick (✓) the smaller object.



# Bigger – Of the Same Size – Smaller



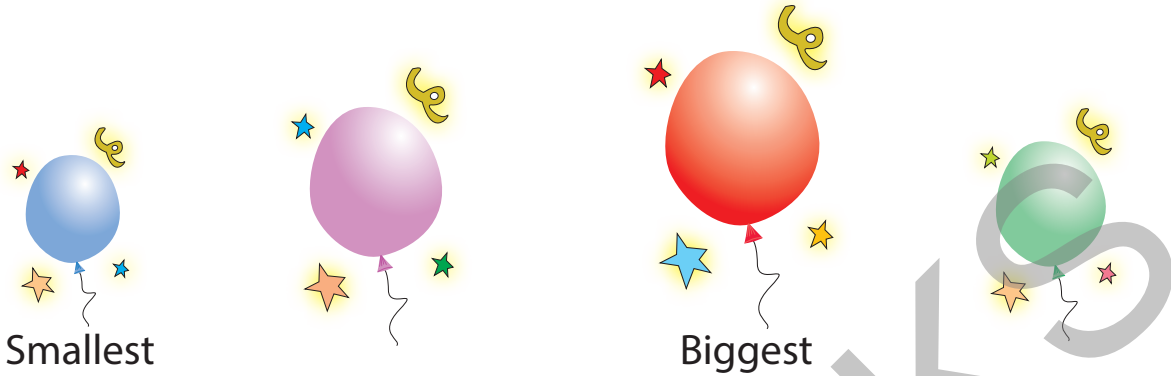
Compare with the object on the left. Tick (✓) the bigger object and cross (✗) the smaller object.



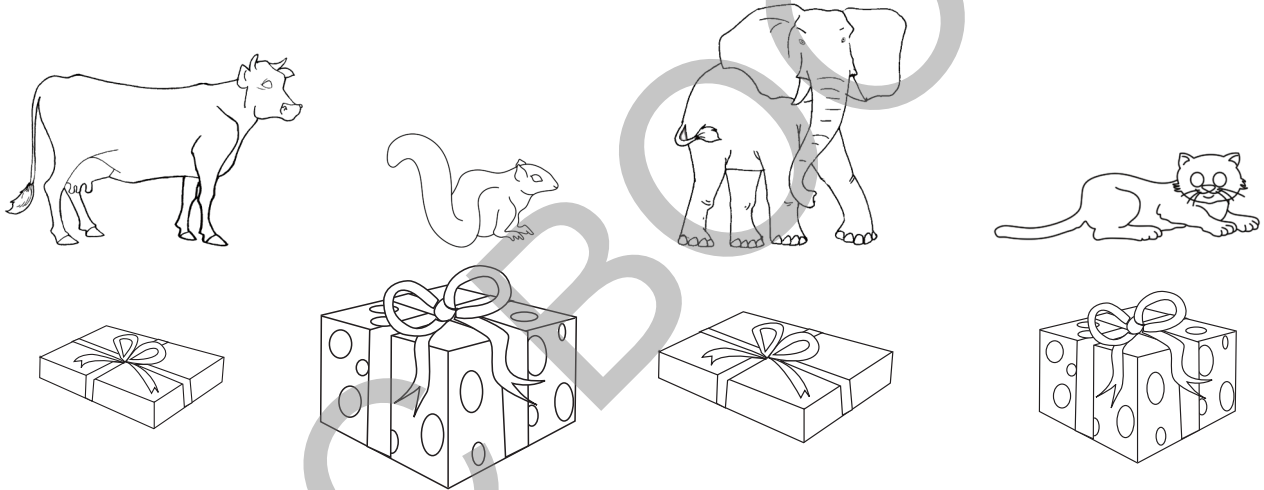
**To the teacher:** It helps to compare bigger and smaller objects and identify the similar size object.



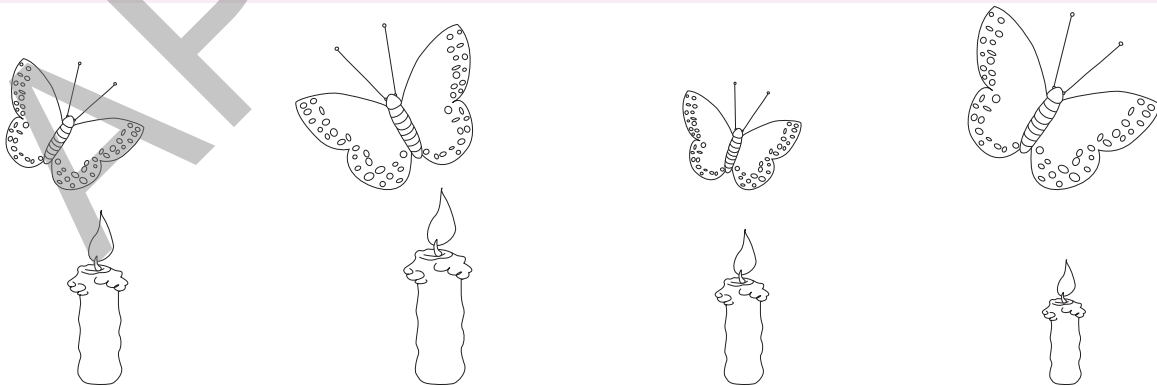
# Biggest – Smallest



Colour red the biggest object.



Colour blue the smallest object.

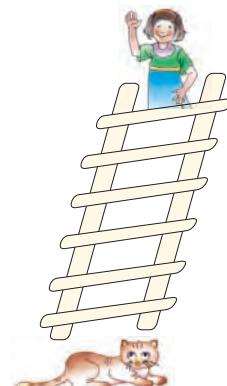
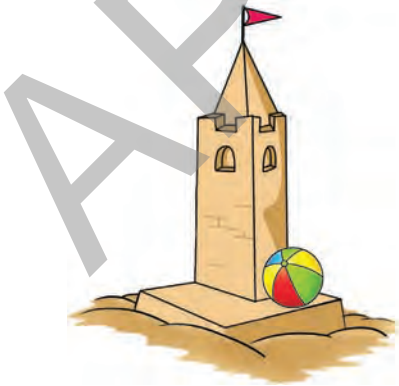


To the teacher: It helps to compare the size of more than three objects.

# Top – Bottom



Tick (✓) the object on the top and cross (✗) the object at the bottom.

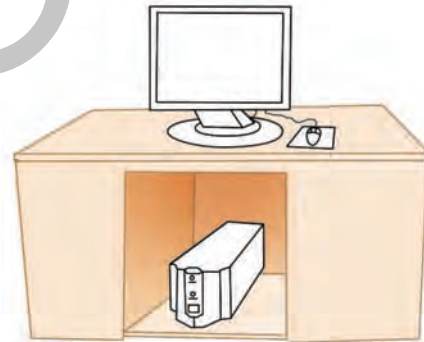


To the teacher: This lesson gives the spatial relationship of two objects.

# On – Under



Colour green the object which is on and colour blue the object which is under. First one is done for you.

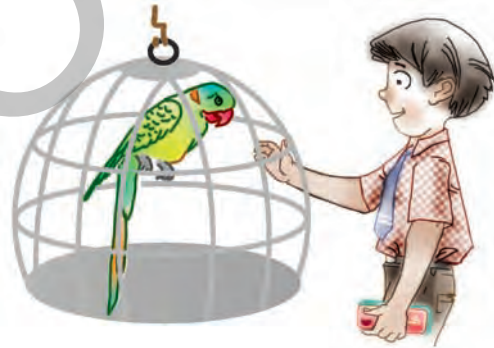


**To the teacher:** The teacher should call a student and ask him to put a book on the table and then a pen under the table. This may be repeated with different students.

# Inside-Outside



Tick (✓) the inside object and cross (✗) the outside object.



To the teacher: This lesson gives the spatial relationship of two objects.

## Above – Below



This is Nakul's house.

An aeroplane is flying above the roof level.

A horse is tied below the roof level.

Colour **green** all objects above the roof level.

Colour **brown** all objects below the roof level.



*To the teacher:* This lesson gives the spatial relationship of two objects.

# Right – Left



I am Nikita.

This is my **right** hand.



This is my **left** hand.

Write **L** for left and **R** for right part.



hand



hand



hand



hand



eye



eye



eye



eye



hand



hand



hand



hand



*To the teacher:* The teacher can demonstrate her right and left hands.

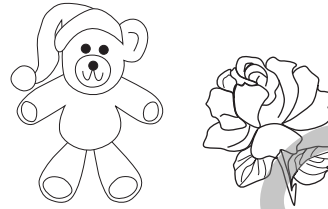


# Activity Worksheet 1

(Use of shapes and figures)



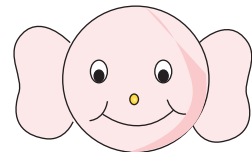
1. Colour **blue** the bigger and **red** the smaller object.



2. Colour **blue** the object on the top and **red** the object at the bottom.



3. (a) Tick (✓) the right ear and cross (✗) the left ear.



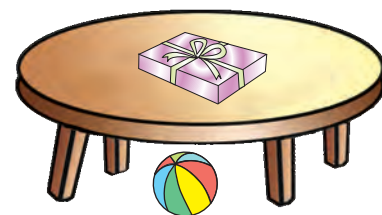
(b) Colour **pink** the object on the right and **blue** the object on the left.



4. Cross (✗) the biggest and tick (✓) the smallest object.



5. Tick (✓) the object on the table and cross (✗) the object under the table.



## 2. Numbers 1 to 10

### Counting Objects in a Collection



One

1



Two

2



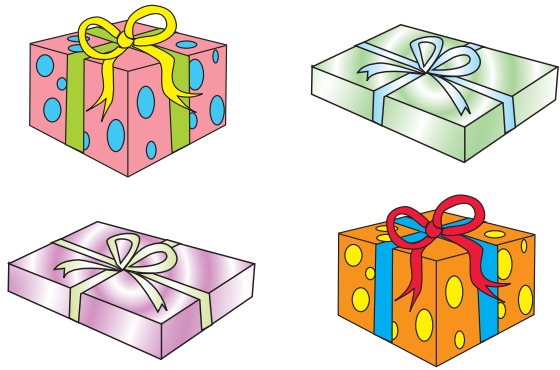
Three

3



**To the teacher:** Give sufficient practice to the students in the recognition of numbers through different surrounding objects.

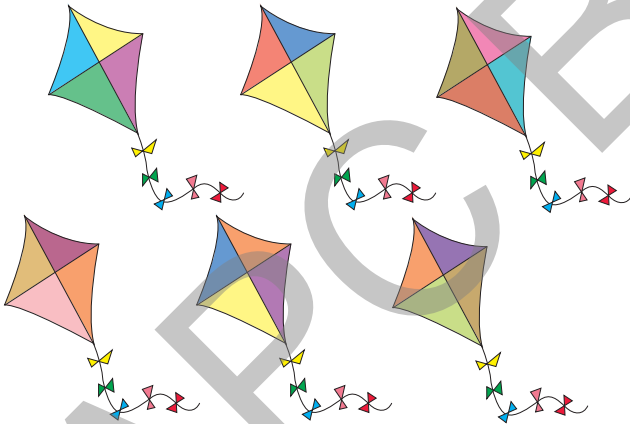




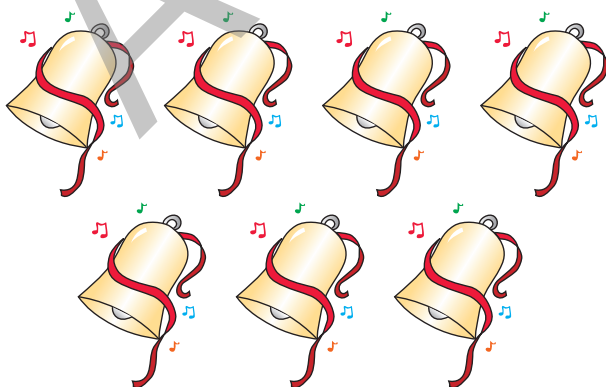
Four  
4



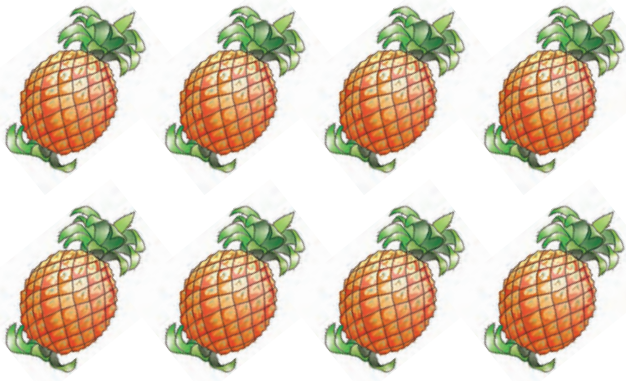
Five  
5



Six  
6



Seven  
7



Eight  
8



Nine  
9

Write the following:

1

2

3

4

5

6

7

8

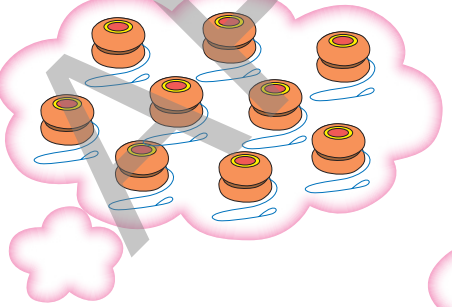
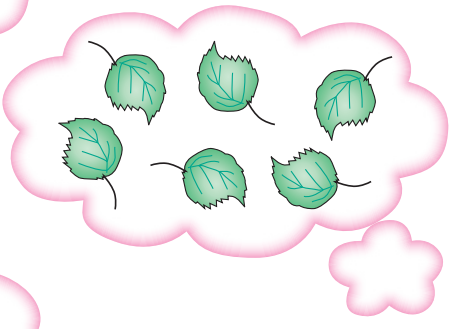
9

# Counting and Writing Numbers (1-9)



Count the objects and write the corresponding number in the space provided.

1



# FUN TIME

From the picture count the different objects and write the number.



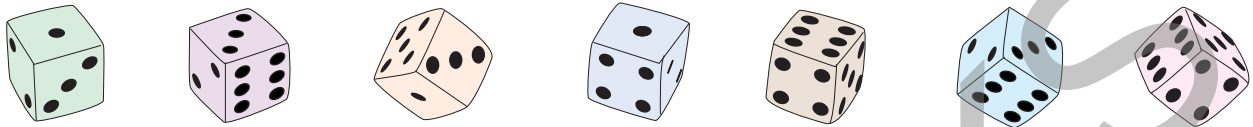
A collection of small illustrations for counting, each with a signpost next to it. The signpost for the rabbit has the number 3 written on it. The other signposts are blank.

- Rabbit: 3
- Basket: 1
- Monkey: 1
- Apple: 1
- Lotus flower: 1
- Elephant: 1
- Yellow flower: 1
- Banana: 1
- Butterfly: 1

# Recognition of Numbers (1-9)



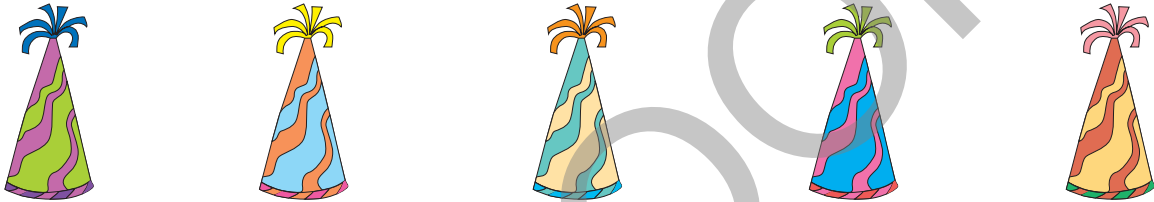
Count the objects and encircle the correct number.



5

7

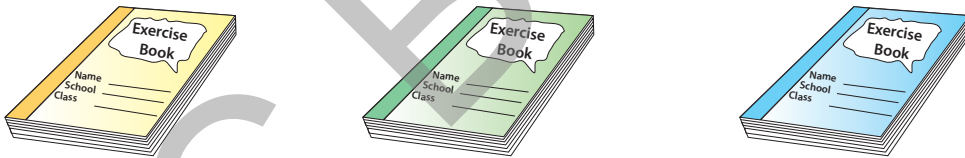
9



5

3

8



4

6

3



8

1

2



9

5

6



2



4

3



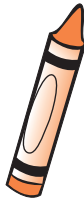
3



4



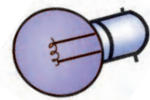
7



9

7

8



6

5

7



3

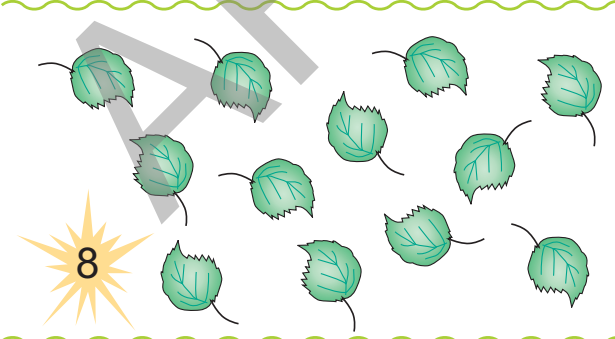
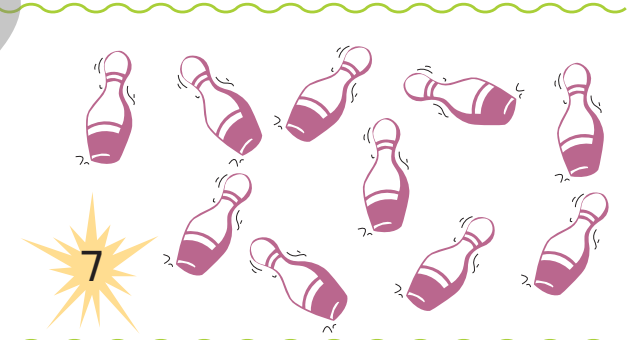
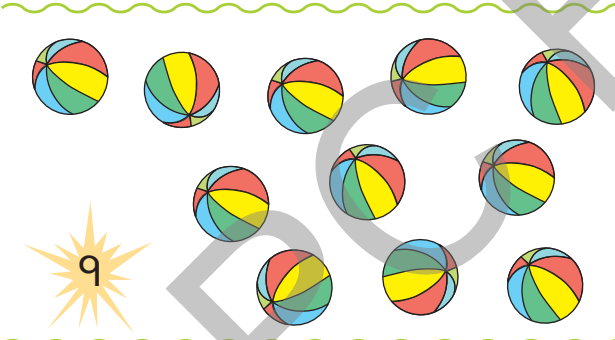
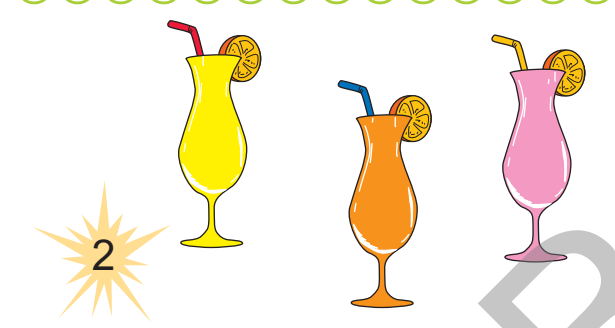
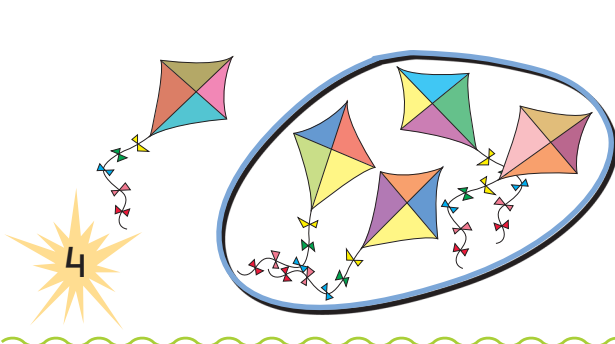
6

4

# Making Collections



Encircle the objects. The number tells you how many.



To the teacher: This lesson encourages students to count and form collection.

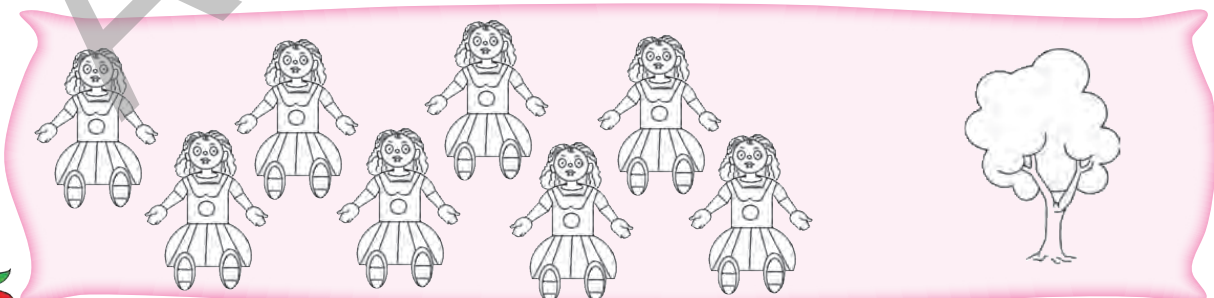
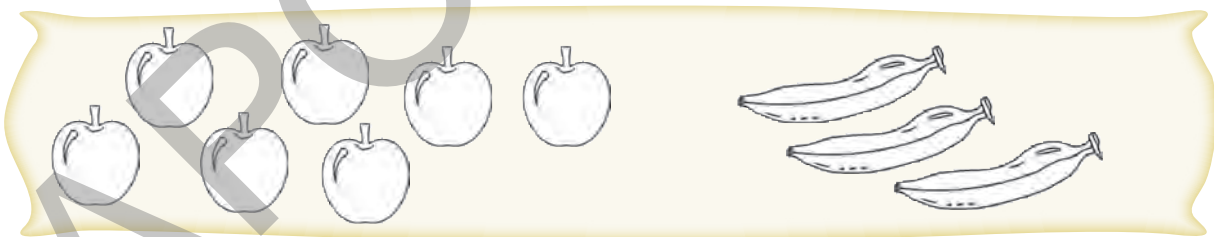
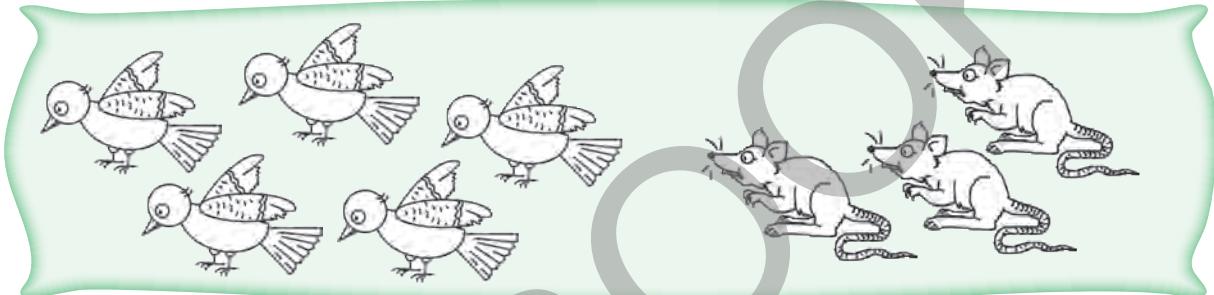
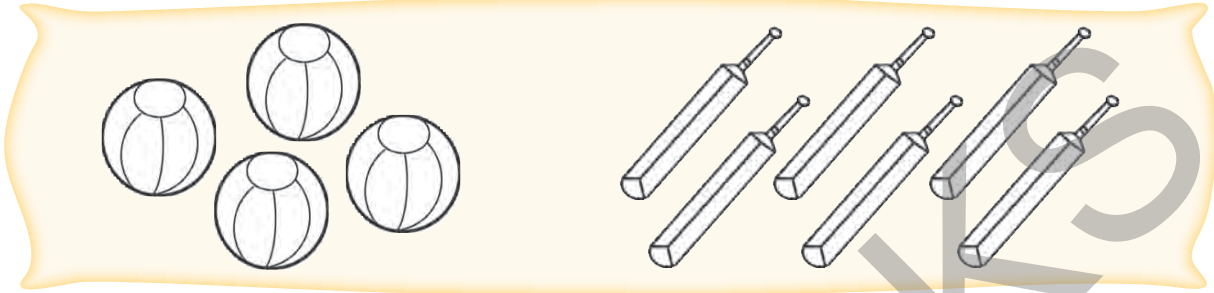


# Activity Worksheet 2

(Counting up to 9)



Count and colour the collection which has less objects.



To the teacher: Ask the students to count and then colour as they like.



# The Number 'Zero'

3 boys are playing.  
One of them runs away.  
Count and tell how many are left.

2



One more runs away.  
Count and tell how many are left now.

1



This boy also runs away.  
How many are left now?

None

None is written as 0.  
'0' is read as 'Zero'.



2 birds



Both the birds fly away



Now 0 bird left



Number of girls on swing is zero



Number of girls on swing is one

Number 1 comes after number 0.



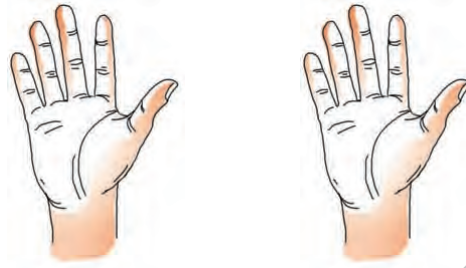
To the teacher: You may tell the students that one comes after zero.

# The Number 'Ten'



- 1
- 3
- 4
- 7
- 10

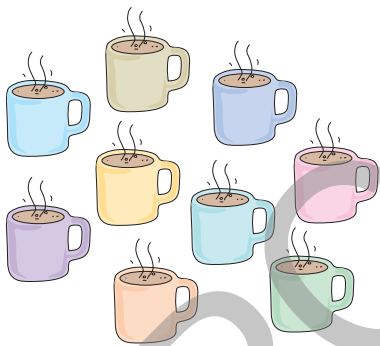
Count the fingers



- 2
- 5
- 8
- 10

1	5	10	9
8	7	4	10
0	10	3	2
10	8	6	7

Circle the number 10



Nine  
9

and



equals



One  
1

Ten  
10

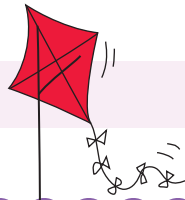
Write.

10	10	10	10	10

# Number and Number Name (1-10)



Write the numbers for:



One

1

Three

Five

Two

Four

Nine

Eight

Seven

Six

Ten



Write the number names of:

5

Five

2

1

8

7

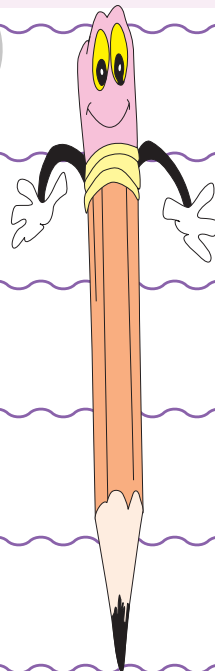
6

4

9

3

10



# After – Before



Fill in the placeholders.

3 is after 2      5 is before 6

is after 7      is before 2

is after 5      is before 5

is after 4      is before 7

is after 9      is before 4

is after 6      is before 9

4 is after      2 is before

2 is after      8 is before

9 is after      3 is before

7 is after      4 is before

# Between



Fill in the placeholders.

3 is between 2 and 4

☁ is between 5 and 7

☁ is between 7 and 9

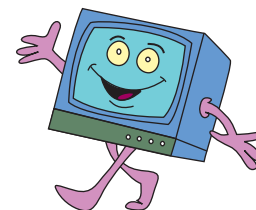
☁ is between 4 and 6

☁ is between 6 and 8

☁ is between 3 and 5



☁ is between 1 and 3



3 is between ☁ and 4

5 is between 4 and ☁

7 is between 6 and ☁

6 is between ☁ and 7

4 is between ☁ and 5

8 is between ☁ and ☁

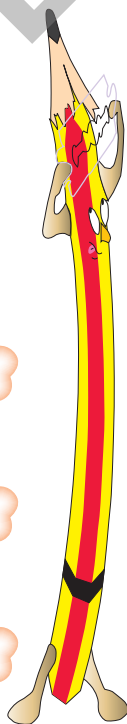
2 is between ☁ and ☁

5 is between ☁ and ☁

3 is between ☁ and ☁

7 is between ☁ and ☁

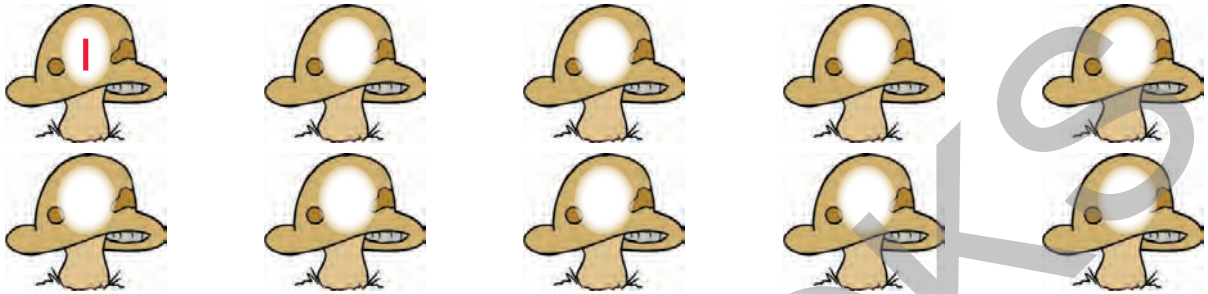
2 is between 1 and ☁



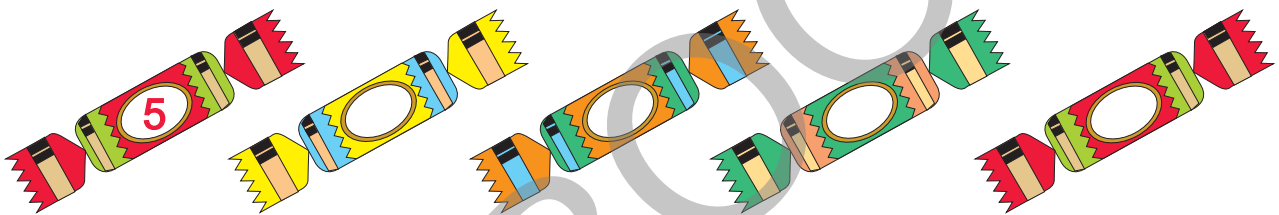
# Writing Numbers in Order



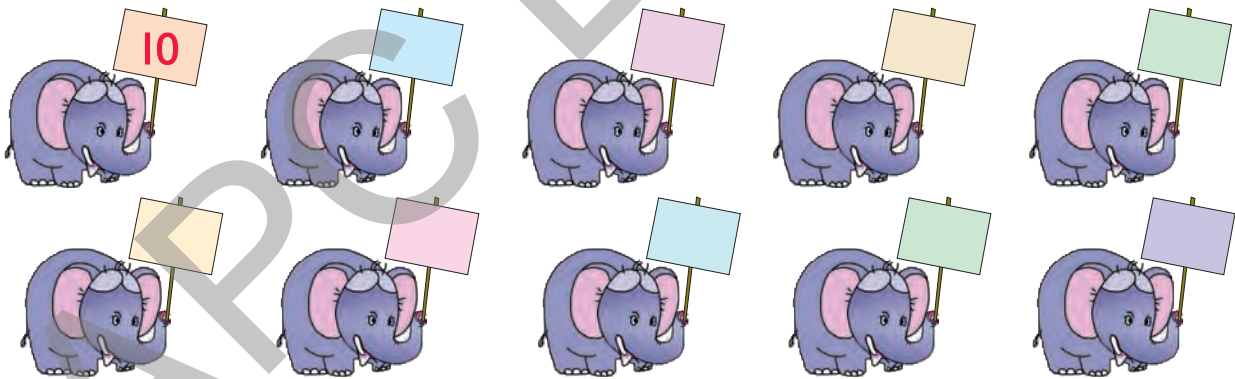
Number the mushrooms in order from 1 to 10.



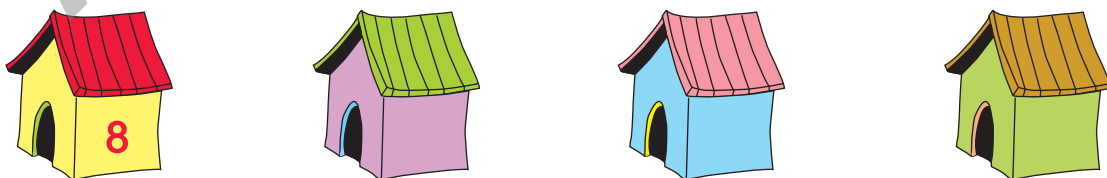
Number the toffees in order from 5 to 9.



Number the elephants in order from 10 to 1.



Number the huts in order from 8 to 5.

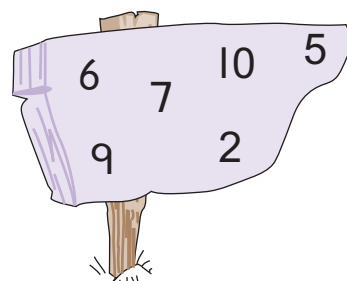
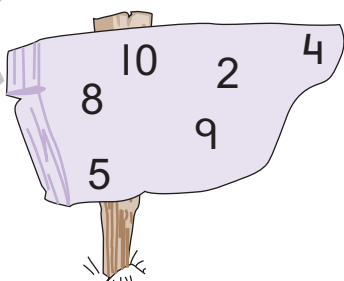
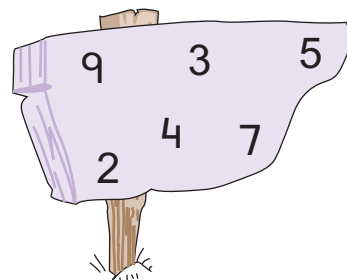
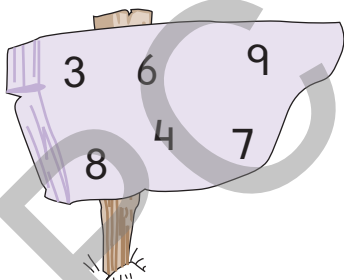
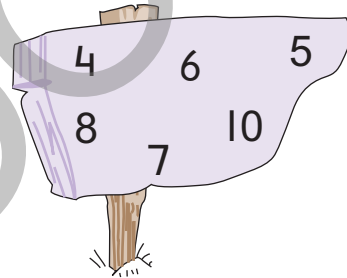
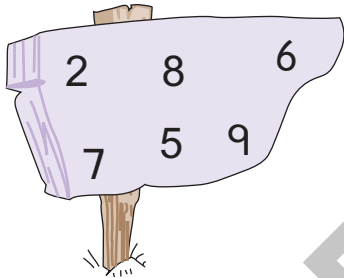


**To the teacher:** This will help to understand the concept of ascending (increasing) or descending (decreasing) order.

# Writing Numbers (1–10) in Ascending (Increasing) Order



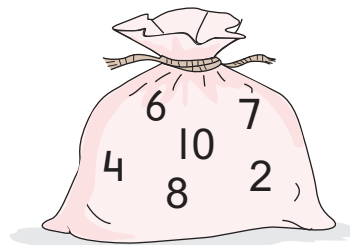
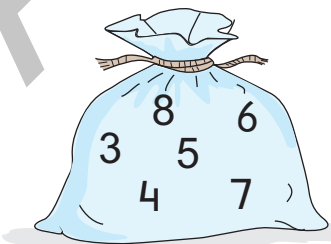
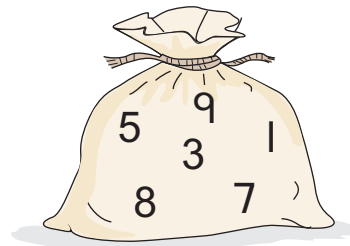
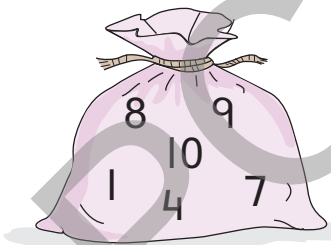
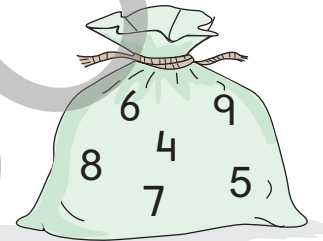
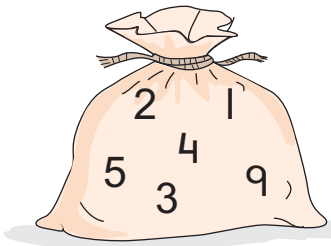
Arrange the numbers from the board in ascending order.



# Writing Numbers (1–10) in Descending (Decreasing) Order



Numbers are placed in bags. Arrange them in descending order.





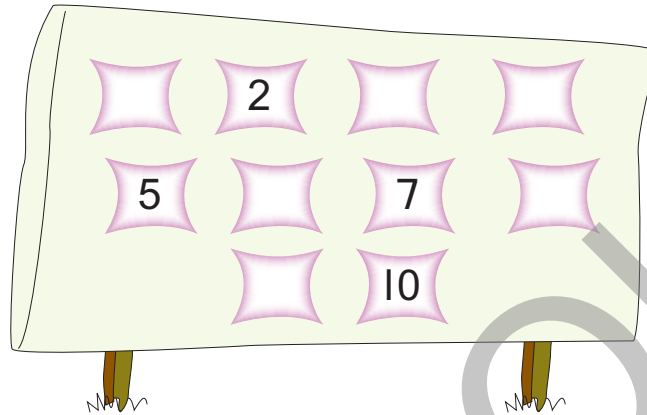


## Activity Worksheet 3

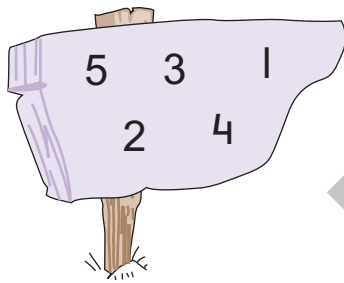
(Ordering of Numbers)



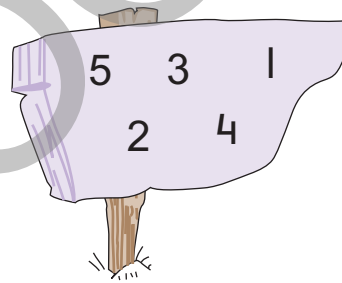
1. Write the missing numbers in each box.



2.



Circle all numbers which come before 4.



Circle all numbers which come after 2.

3. Write the number name.

(a) 9

(b) 8

(c) 6

(d) 10

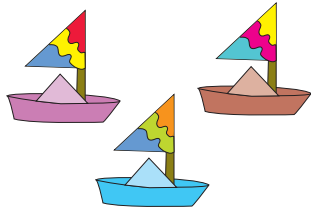
4. Write 6, 2, 3, 8, 1 in increasing order.

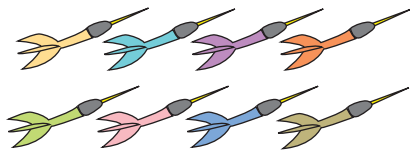
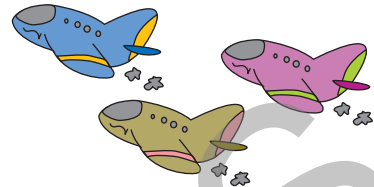
5. Write 4, 7, 9, 2, 8, 1 in decreasing order.

# 3. Addition (1-10)

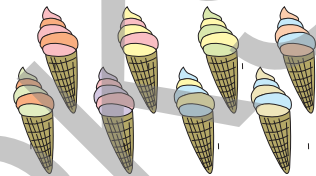
## 'Equal To' Symbol



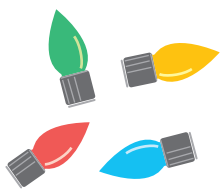
3 is equal to 3  
 $3 = 3$



8 is equal to 8  
 $8 = 8$



Fill in the placeholders.

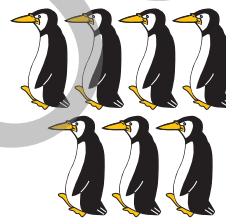


4

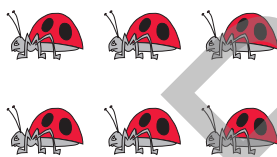
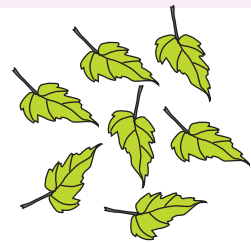
=



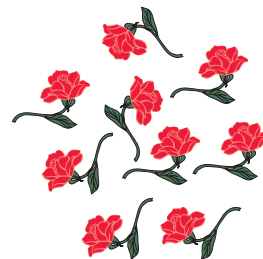
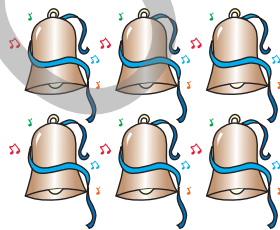
4



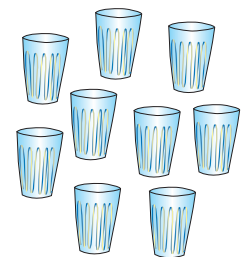
=



=



=



Fill in the placeholders.

5

=



3

=



7



7

6



6

=

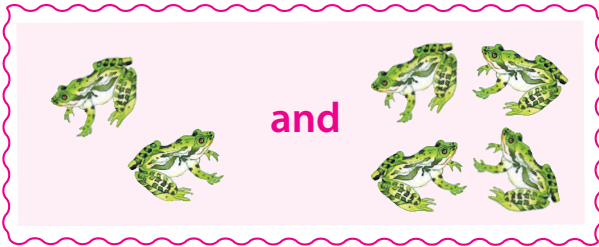
4

8

=



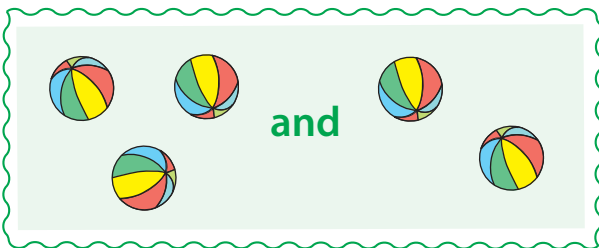
# Addition



2 and 4 make 6

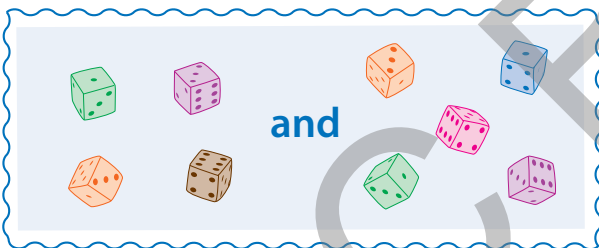
2 + 4 = 6

Add the objects and fill in the space provided.



3 and 2 make 5

3 + 2 = 5



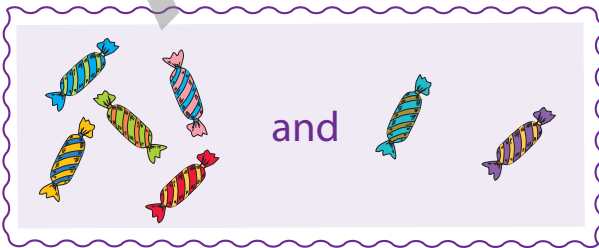
4 and 3 make 7

4 + 3 = 7



3 and 4 make 7

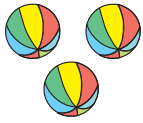
3 + 4 = 7



5 and 2 make 7

5 + 2 = 7

## Addition Property of 'Zero' and 'One'

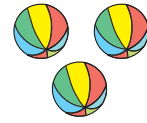


3

+

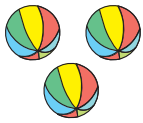
0

=



3

When we add zero to a number, the number remains the same.



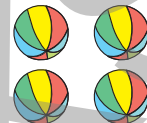
3

+



1

=



4

When we add one to a number, we get the next number.

Fill in the placeholders.

$0 + 2 =$

2

$2 + 0 =$

2

$4 + 0 =$

$0 + 4 =$

$5 + 1 =$

$1 + 5 =$

$0 + 6 =$

$6 + 0 =$

$9 + 1 =$

$1 + 9 =$

$0 + 1 =$

$1 + 0 =$

$3 + 1 =$

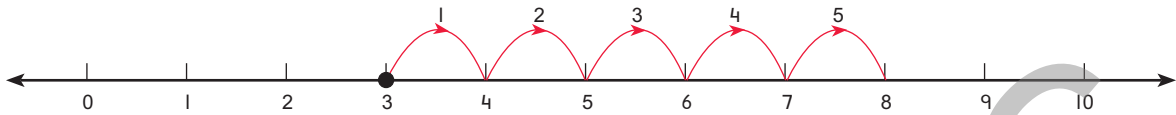
$1 + 3 =$



# Addition on Number Line (Forward counting)



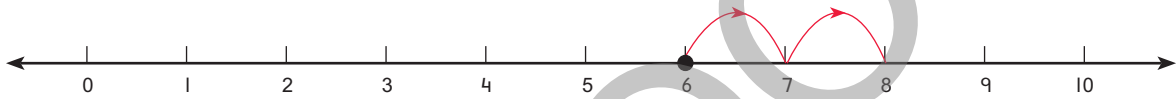
$3 + 5$



We start from 3 and count 5 ahead. We reach at 8.

$3 + 5 = 8.$

$6 + 2$

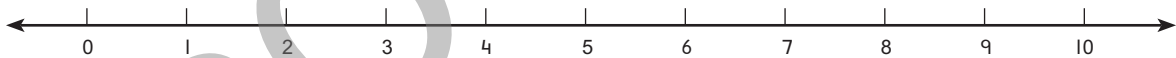


We start from 6 and count 2 ahead.

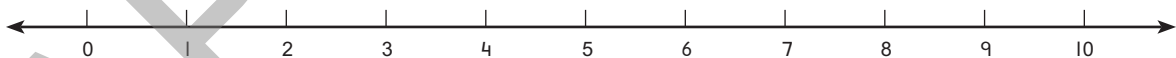
$6 + 2 = 8.$

**Add.**

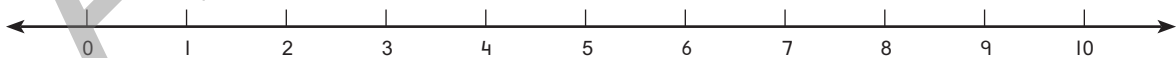
$4 + 5 =$



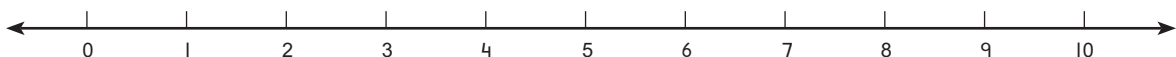
$3 + 2 =$



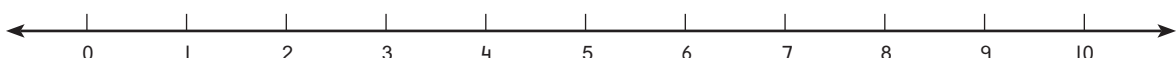
$1 + 5 =$



$8 + 2 =$



$2 + 7 =$



# Vertical Addition



Fill in the boxes.

$$\begin{array}{r} 4 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 1 \\ \hline \end{array}$$



$$\begin{array}{r} 1 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$$



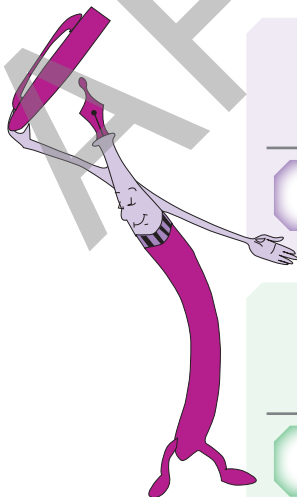
$$\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 1 \\ \hline \end{array}$$



$$\begin{array}{r} 4 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 5 \\ \hline \end{array}$$

# Addition Stories



3 marbles in one hand.  
5 marbles in the other hand.



**8 marbles in all**

$$\begin{array}{r} 3 \\ + 5 \\ \hline 8 \end{array}$$

5 whistles on the table.  
2 whistles in the hand.



**..... whistles in all**

$$\begin{array}{r} + \\ \hline \\ \hline \end{array}$$

Diya has 1 doll.  
Riya has 4 dolls.  
How many dolls do they have?



$$\begin{array}{r} + \\ \hline \\ \hline \end{array}$$

There are 3 birds in one cage.  
6 birds in the other cage.  
Find the total number of birds in the cages.



$$\begin{array}{r} + \\ \hline \\ \hline \end{array}$$

Anjali spins 6 balls on Monday.  
She spins 2 balls on Tuesday.  
How many balls does she spin in all?



$$\begin{array}{r} + \\ \hline \\ \hline \end{array}$$

Harsh brings 2 apples.  
Neha brings 4 apples.  
How many apples altogether do they bring?



$$\begin{array}{r} + \\ \hline \\ \hline \end{array}$$



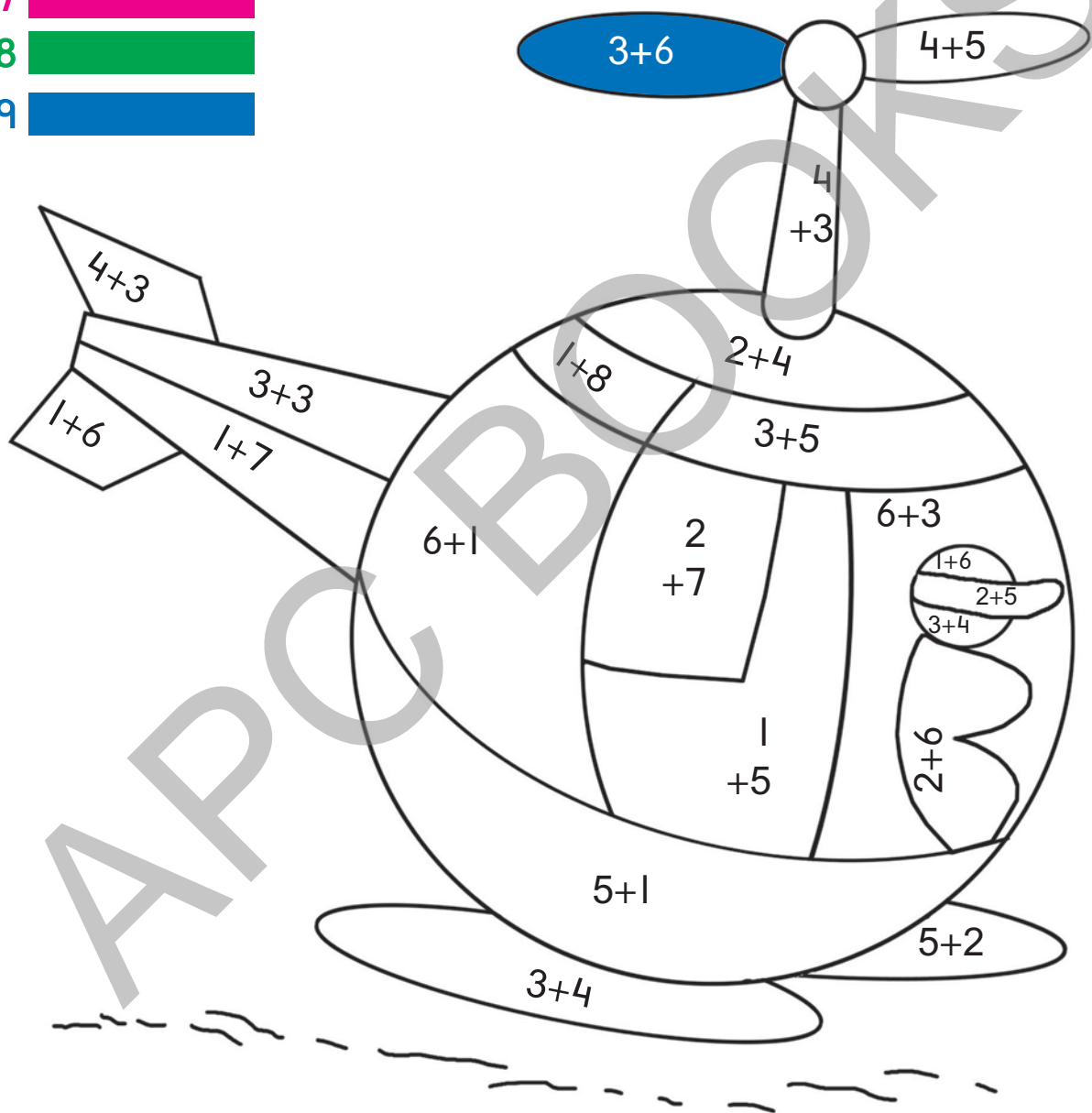
## Activity Worksheet 4

(Addition—Sum up to 9)



Add in your mind and then colour the Helicopter.

Use the key to colour:



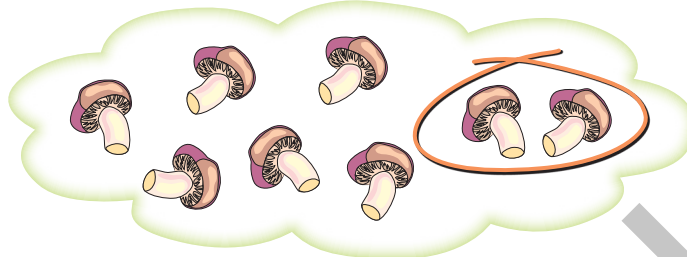
**To the teacher:** Here the objective is to add mentally and then match the answer before colouring. No need to write the sum.



# 4. Subtraction (1-10)

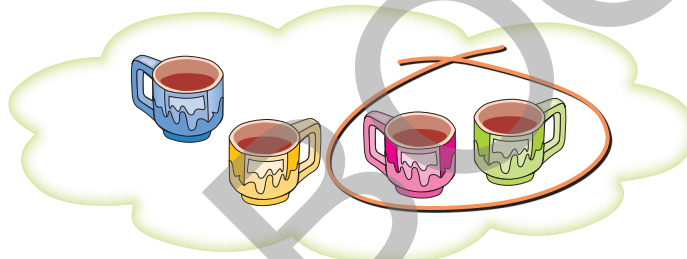
## Partitioning of a Collection

Fill in the placeholders.



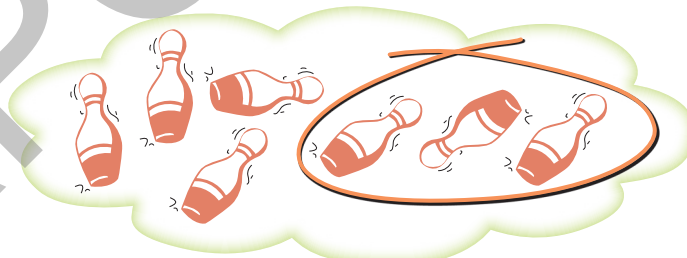
From 8 take away 2 leaves 6

$$8 - 2 = 6$$



From \_\_\_\_\_ take away \_\_\_\_\_ leaves \_\_\_\_\_

$$- =$$




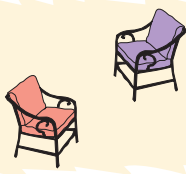
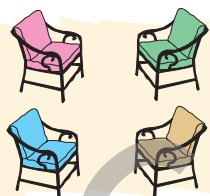
From \_\_\_\_\_ take away \_\_\_\_\_ leaves \_\_\_\_\_

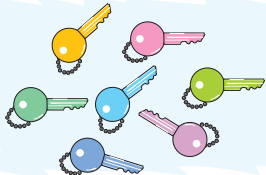
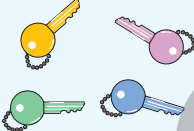
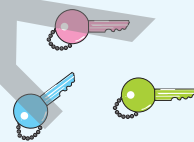
$$- =$$

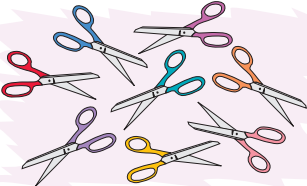
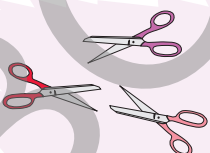
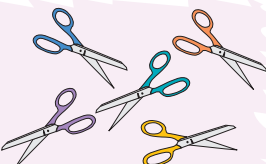


**To the teacher:** Tell the students that take away is represented by minus (-) in mathematics.

Subtract and fill in the placeholders.

 minus  is   
6 - 2 = 4

 minus  is   
★ - 2 = ★

 minus  is   
★ - 2 = ★

 minus  is   
★ - 4 = ★

 minus  is   
★ - 5 = ★

## Subtraction Property of 'Zero' and 'One'

There are 3 bananas in a plate.

Mary does not take any banana.

How many bananas are left?

$$3 - 0 = 3$$

THREE

When we subtract zero from a number, the number remains the same.

Mary eats one banana. Now two bananas are left.

$$3 - 1 = 2$$

TWO

When we subtract one from a number, we get the previous number.



Fill in the placeholders.

$$3 - 0 = \text{cloud}$$

$$4 - 0 = \text{cloud}$$

$$8 - 1 = \text{cloud}$$

$$7 - 0 = \text{cloud}$$

$$9 - 1 = \text{cloud}$$

$$6 - 1 = \text{cloud}$$

$$1 - 1 = \text{cloud}$$

$$5 - 0 = \text{cloud}$$

$$\begin{array}{r} 3 \\ - 0 \\ \hline \end{array}$$



$$\begin{array}{r} 8 \\ - 0 \\ \hline \end{array}$$



$$\begin{array}{r} 9 \\ - 0 \\ \hline \end{array}$$



$$\begin{array}{r} 1 \\ - 0 \\ \hline \end{array}$$



$$\begin{array}{r} 4 \\ - 0 \\ \hline \end{array}$$



$$\begin{array}{r} 7 \\ - 0 \\ \hline \end{array}$$



$$\begin{array}{r} 6 \\ - 0 \\ \hline \end{array}$$



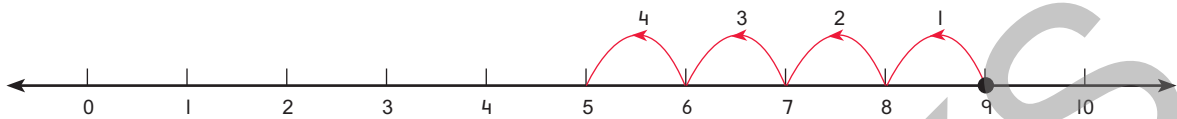
$$\begin{array}{r} 5 \\ - 0 \\ \hline \end{array}$$



## Subtraction on Number Line (Backward counting)



We do backward counting to subtract on number line.  
Let us subtract 4 from 9.



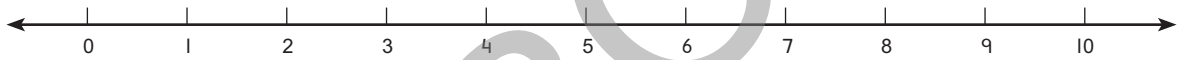
Put your finger at 9. Now count 4 moving backwards.

Where did you stop? Yes, at 5.

$$\text{So, } 9 - 4 = 5$$

**Subtract by counting backward:**

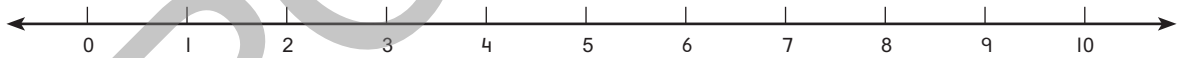
$$8 - 3 = \square$$



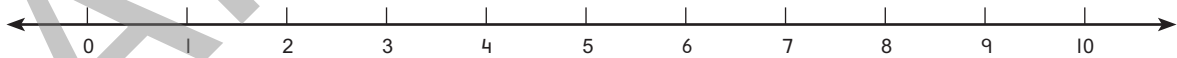
$$6 - 1 = \square$$



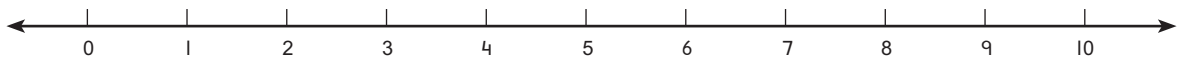
$$7 - 2 = \square$$



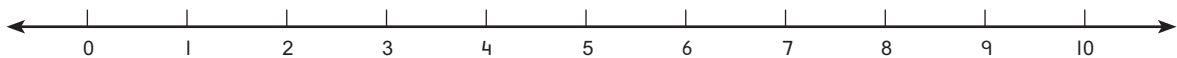
$$4 - 3 = \square$$



$$10 - 4 = \square$$



$$10 - 1 = \square$$



# Vertical Subtraction



Subtract and fill in the boxes.

$\begin{array}{r} 6 \\ -2 \\ \hline \end{array}$ <input type="text" value="4"/>	$\begin{array}{r} 8 \\ -3 \\ \hline \end{array}$ <input type="text"/>	$\begin{array}{r} 5 \\ -1 \\ \hline \end{array}$ <input type="text"/>	$\begin{array}{r} 7 \\ -3 \\ \hline \end{array}$ <input type="text"/>	$\begin{array}{r} 5 \\ -4 \\ \hline \end{array}$ <input type="text"/>
$\begin{array}{r} 4 \\ -2 \\ \hline \end{array}$ <input type="text"/>	$\begin{array}{r} 8 \\ -5 \\ \hline \end{array}$ <input type="text"/>	$\begin{array}{r} 3 \\ -1 \\ \hline \end{array}$ <input type="text"/>	$\begin{array}{r} 6 \\ -3 \\ \hline \end{array}$ <input type="text"/>	$\begin{array}{r} 8 \\ -7 \\ \hline \end{array}$ <input type="text"/>
	$\begin{array}{r} 4 \\ -1 \\ \hline \end{array}$ <input type="text"/>	$\begin{array}{r} 7 \\ -2 \\ \hline \end{array}$ <input type="text"/>	$\begin{array}{r} 7 \\ -4 \\ \hline \end{array}$ <input type="text"/>	$\begin{array}{r} 9 \\ -6 \\ \hline \end{array}$ <input type="text"/>
$\begin{array}{r} 9 \\ -3 \\ \hline \end{array}$ <input type="text"/>	$\begin{array}{r} 8 \\ -6 \\ \hline \end{array}$ <input type="text"/>	$\begin{array}{r} 9 \\ -4 \\ \hline \end{array}$ <input type="text"/>	$\begin{array}{r} 3 \\ -2 \\ \hline \end{array}$ <input type="text"/>	$\begin{array}{r} 8 \\ -4 \\ \hline \end{array}$ <input type="text"/>
$\begin{array}{r} 7 \\ -1 \\ \hline \end{array}$ <input type="text"/>	$\begin{array}{r} 6 \\ -1 \\ \hline \end{array}$ <input type="text"/>	$\begin{array}{r} 9 \\ -2 \\ \hline \end{array}$ <input type="text"/>	$\begin{array}{r} 9 \\ -8 \\ \hline \end{array}$ <input type="text"/>	$\begin{array}{r} 5 \\ -2 \\ \hline \end{array}$ <input type="text"/>

# Subtraction Stories



There are 5 birds on a tree.  
2 of them fly away.  
How many birds are left on the tree?



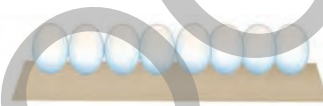
$$\begin{array}{r} 5 \\ - 2 \\ \hline 3 \end{array}$$

Amita buys 7 oranges.  
She gives 3 oranges to her brother.  
How many oranges has Amita now?



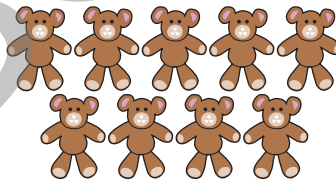
$$\begin{array}{r} \phantom{7} \\ - 3 \\ \hline \phantom{00} \end{array}$$

Dolly has 8 eggs.  
5 of them are broken.  
How many eggs are left?



$$\begin{array}{r} \phantom{8} \\ - 5 \\ \hline \phantom{00} \end{array}$$

Shikha has 9 toys.  
She gives 5 toys to her sister.  
How many toys has Shikha now?



$$\begin{array}{r} \phantom{9} \\ - 5 \\ \hline \phantom{00} \end{array}$$

David has 6 chickens.  
3 of them die.  
How many chickens has he now?



$$\begin{array}{r} \phantom{6} \\ - 3 \\ \hline \phantom{00} \end{array}$$

Simran needs 8 books.  
She has 4 books.  
How many books should she buy more?



$$\begin{array}{r} \phantom{8} \\ - 4 \\ \hline \phantom{00} \end{array}$$

Disha has 5 apples.  
She eats 1 apple.  
How many apples has she now?



$$\begin{array}{r} \phantom{5} \\ - 1 \\ \hline \phantom{00} \end{array}$$



# Activity Worksheet 5

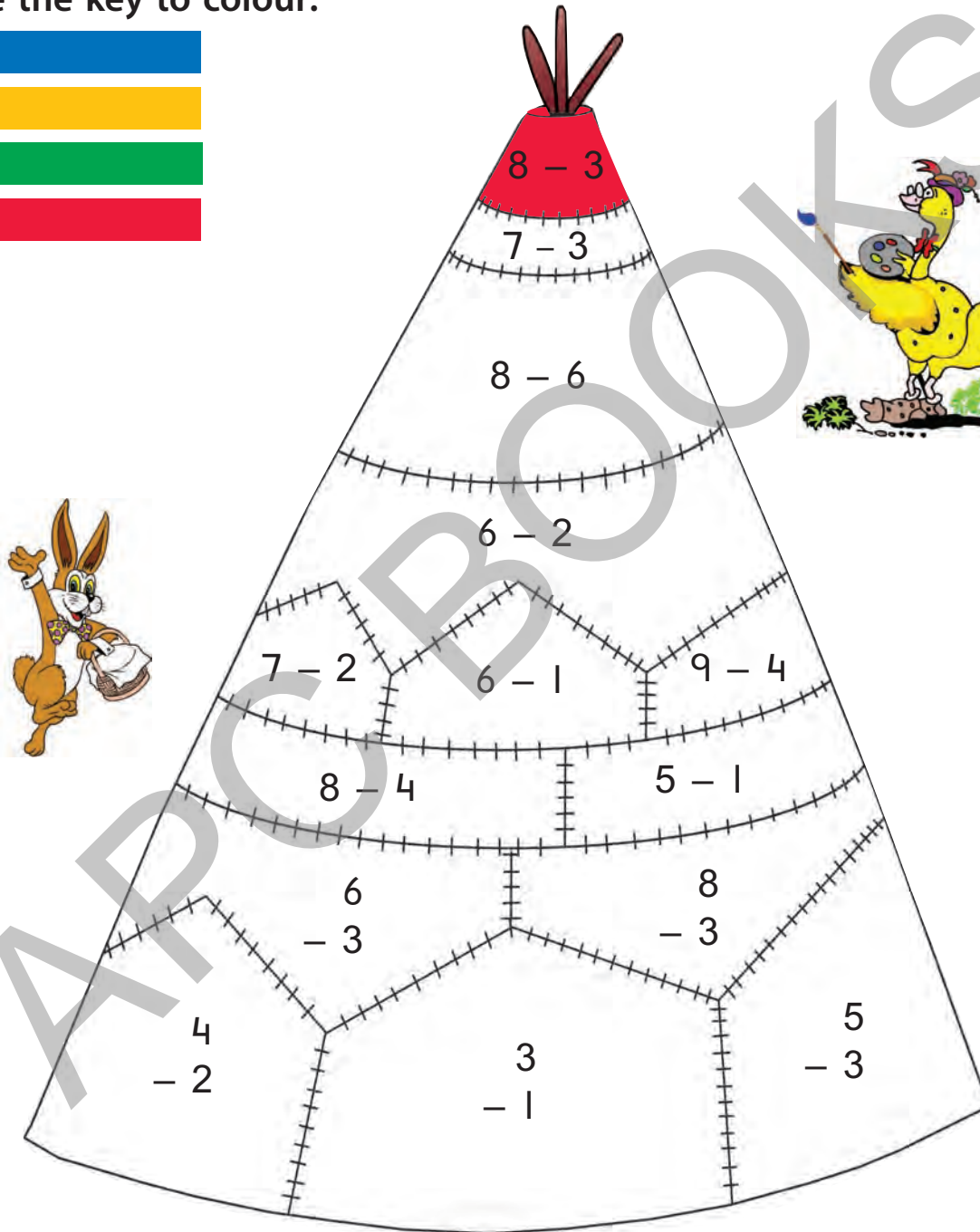
(Subtraction up to 9)



Subtract in the mind and colour the clown cap.

Use the key to colour:

- 2 
- 3 
- 4 
- 5 



**To the teacher:** Here the objective is to subtract mentally and then match the answer before colouring. No need to write the difference.



# Worksheet

(Addition and Subtraction)



Fill in the placeholders.

$2 + 6 = 8$

$\text{ } + \text{ } = 7$

$\text{ } + \text{ } = 9$

$\text{ } + \text{ } = 5$

$\text{ } + \text{ } = 6$

$\text{ } + \text{ } = 2$

$\text{ } + \text{ } = 4$

$\text{ } + \text{ } = 3$

$8 - 3 = 5$

$\text{ } - \text{ } = 4$

$\text{ } - \text{ } = 2$

$\text{ } - \text{ } = 6$

$\text{ } - \text{ } = 7$

$\text{ } - \text{ } = 9$

$\text{ } - \text{ } = 8$

$\text{ } - \text{ } = 3$

$\text{ } - \text{ } = 1$

$\text{ } + \text{ } = 1$



**To the teacher:** Here a question may have more than one answer. Encourage the students to find all possible answers.