

A Multi-skill Activity Book on Mathematics





PM PUBLISHERS PVT. LTD.

#### Skillment Mathematics - FS 1 (Nursery)

#### **PMP Editorial Team**

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ISBN : 978-93-94820-47-0

First Edition : 2023

Price : ₹ 255/-

Printed at :

Published in India by :



#### PM PUBLISHERS PVT. LTD.

C-55, Sector-65, NOIDA, Gautam Budh Nagar-201301 (U.P.), India

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### **Preface**

With a vision of making quality education accessible to all from the Foundational Stage to Secondary Stage of schooling, the **National Education Policy (NEP) 2020** has issued a new pedagogical and academic structure. The new pedagogical and academic structure has been divided into four stages as mentioned below:

Foundational Stage (5 years): Nursery, LKG, UKG, Std. 1 and Std. 2 (3-8 years)

Preparatory Stage (3 years): Std. 3, Std. 4 and Std. 5 (8-11 years)

Middle Stage (3 years): Std. 6, Std. 7 and Std. 8 (11-14 years)

Secondary Stage (4 years): Std. 9, Std. 10, Std. 11 and Std. 12 (14-18 years)

In the new 5+3+3+4 structure, a strong base of Early Childhood Care and Education (ECCE) from age 3 is also included.

The overall aim of Early Childhood Care and Education (ECCE) is to attain optimal outcomes in the following domains:

- ✓ Physical and motor development
- ✓ Cognitive development
- ✓ Social-emotional-ethical development
- ✓ Cultural/Artistic development
- ✓ Development of communication and early language, literacy, and numeracy

Our new series, **Skillment**, is properly graded and contains age-appropriate course material for the learners of Foundational Stage to achieve the aims and objectives outlined in the **National Curriculum Framework (NCF) for** 

Foundational Stage 2022. The series covers different subjects which are classified under the following categories:

FS 1 (3+ years): Maths, English, EVS, Hindi, Art and Craft, Kavitayen aur Kahaniyan, Rhymes and Stories

FS 2 (4+ years): Maths, English, EVS, Hindi, Art and Craft, Kavitayen aur Kahaniyan, Rhymes and Stories

FS 3 (5+ years): Maths, English, EVS, Hindi, Art and Craft, Kavitayen aur Kahaniyan, Rhymes and Stories

FS 4 (6+ years): Maths, English, EVS, Hindi, English Grammar, Art and Craft, Computer and GK

FS 5 (7+ years): Maths, English, EVS, Hindi, English Grammar, Art and Craft, Computer and GK

Apart from the main books, we are also providing **Workbooks** with Maths, English, EVS and Hindi to learners for extra practice.

The whole set of books for each class also carries a **Teacher's Resource Kit** which contains various kinds of relevant and interesting teaching aid that teachers may use in the classroom.

A **booklet on Social and Emotional Learning** (SEL) including lesson plans is provided for the teachers to inculcate SEL skills in the learners.

**Skillment App** is for skill building and joyful teaching and learning for teachers and learners.

#### **Web Support**

Our web portal pmponline.co.in provides a vital web support to teachers and learners. It includes the following:

- Multimedia ebooks: consist of animation, audio, video, and interactive exercises
- Additional worksheets: printable worksheets for extra practice
- Teacher's resource: comprises lesson plans
- Virtual lessons: consist of pre-recorded video lessons
- AR (Augmented Reality) App both for android and iOS: turns books into smart books with better visualisation and concept clarity

It is a concerted attempt to make the series more useful for the teachers, parents and kids. We hope this series will be quite helpful in achieving the goals set by the NEP 2020. However, we shall appreciate valuable and constructive feedback from teachers and parents to improve the books with every new edition.

—Publishers



# Features of Skillment Mathematics

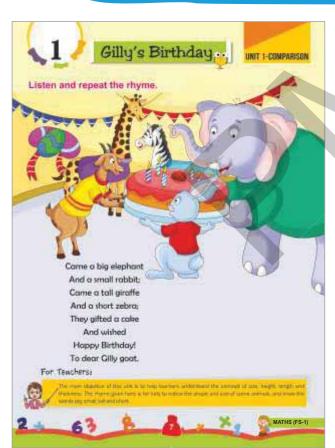


**Skillment Mathematics** series adheres to the guidelines issued under Early Childhood Care and Education mentioned in the National Education Policy 2020 and subsequently in the National Curriculum Framework (NCF) for Foundational Stage 2022.

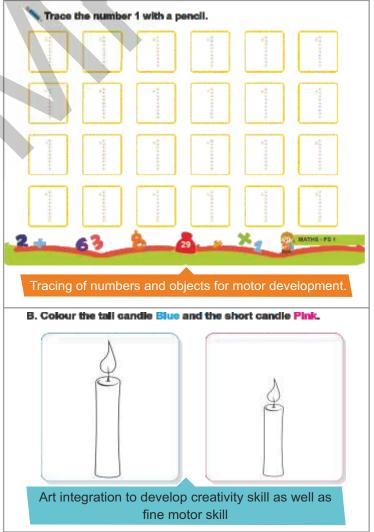
#### Aims of Early Childhood Care and Education (ECCE)

- ✓ Physical and motor development
- ✓ Cognitive development
- ✓ Social-emotional and ethical development
- ✓ Cultural/artistic development
- ✓ Development of communication and early language, literacy, and numeracy

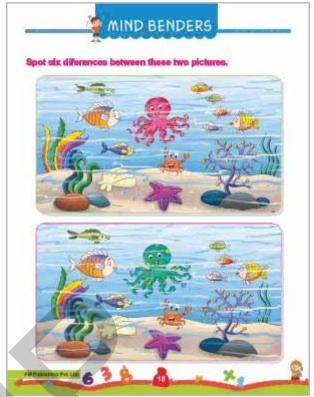
#### Important Features to meet the aims and objectives of ECCE



Child-friendly and interactive approach to get the learners remain engaged during the learning process

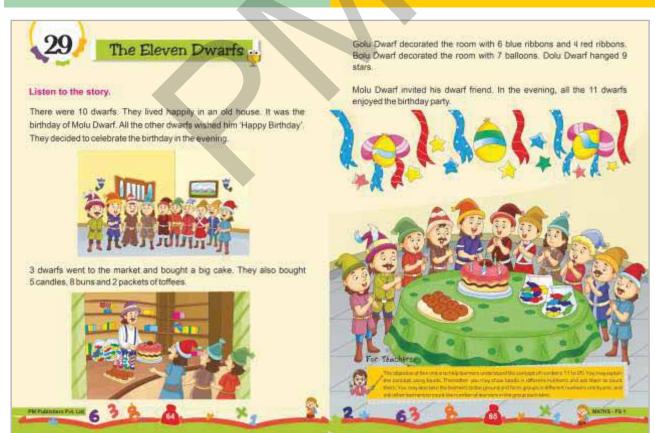






Concept-based rhymes to create interest of learners in the topic as well as to enhance their literacy skill

Problem based activities to develop critical thinking skill of the learners



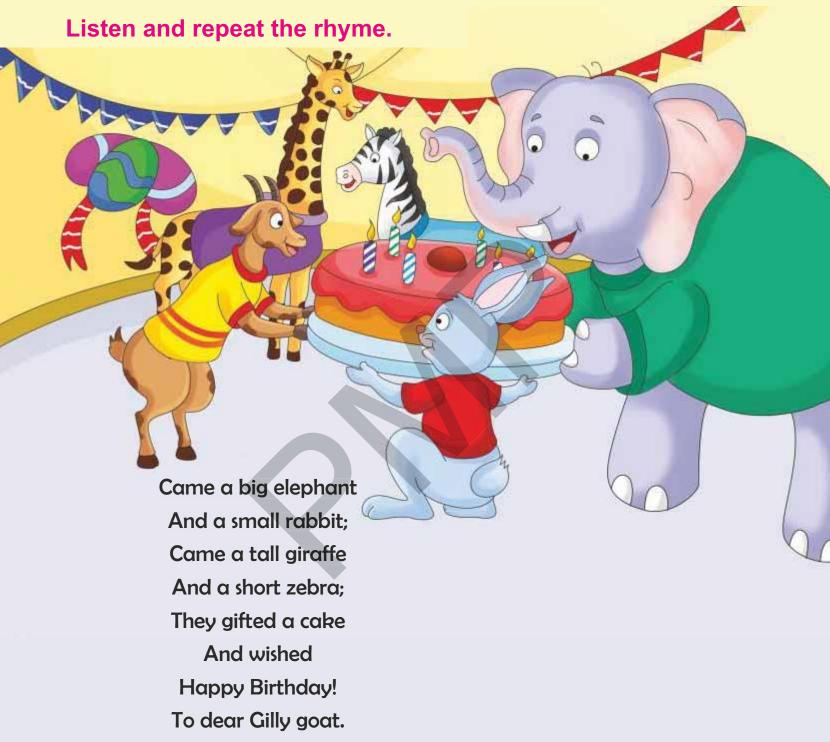
Double spread story-based concept to introduce number 11.



Sr.No.	Chapters	Page No.	Sr.No.	Chapters	Page No.
	Unit 1: Comparison			Unit 4: Numbers	
1.	Gilly's Birthday	7		6 to 10 and 0	
2.	Big and Small	8	18.	Once I Caught a Fish	
3.	Tall and Short	10		Alive	41
4.	Long and Short	12	19.	Number 6	42
5.	Thick and Thin	14	20.	Number 7	44
•	Now I Know	16	21.	Number 8	46
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	Unit 2: Lines and Patterns	s	23.	Number 0	50
6.	Beetly Bee	19	24.	Number 10	52
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10.	Curved Lines	23	25.	Talking Shapes	57
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12.	One is Me	27	•	Mind Benders	63
13.	Number 1	28		Unit 6: Numbers	
14.	Number 2	30		11 to 20	
15.	Number 3	32	29.	The Eleven Dwarfs	64
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17.	Number 5	36	31.	Numbers 16-20	67
•	Now I Know	38	•	Now I Know	68
•	Mind Benders	40	•	Mind Benders	71

# Gilly's Birthday

**UNIT 1-COMPARISON** 



#### For Teachers:



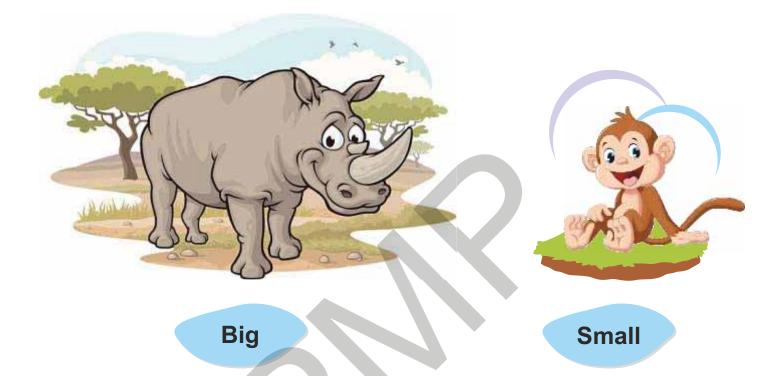
The main objective of this unit is to help learners understand the concept of size, height, length and thickness. The rhyme given here is for learners to notice the shape and size of some animals, and know the words big, small, tall and short.



## Big and Small



#### Point at the pictures and say Big and Small.



#### A. Circle the big ball.





#### For Teachers:



This chapter will help learners understand the concept of size. You may help them compare two different things on the basis of their sizes.

#### For Parents:

You may show two bowls of different sizes to your child and discuss the terms big and small.









### B. Colour the big balloon Red and the small balloon Blue.



## Tall and Short



Point at the pictures and say Tall and Short.



Tall



**Short** 

#### A. Circle the short plant.



For Teachers:



For Parents:



The objective of this chapter is to help learners understand the concept of height. You may show the learners two objects of different heights.

You may take a walk in your society with your child. Show him/her tall and short trees, buildings, etc. and discuss the terms.









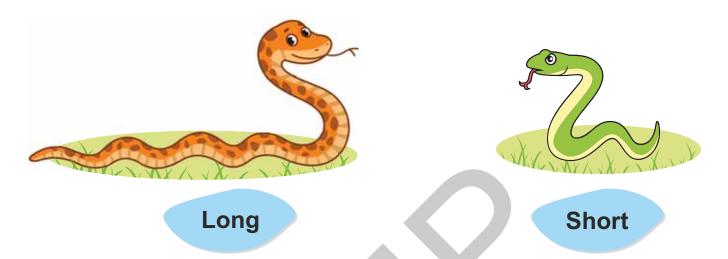
#### B. Colour the tall candle Blue and the short candle Pink.



### C. Circle the odd one.



Point at the pictures and say Long and Short.



A. Cross out (×) the long stick.



#### For Teachers:



The objective of this chapter is to clear the concept of length. You may show the learners two objects of different lengths and ask them to compare. Also, help them understand the difference between height and length because they may get confused by the same word 'short' used with height and length.

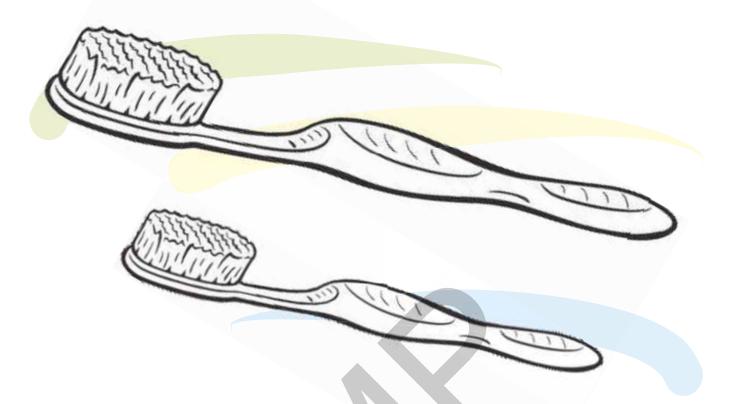




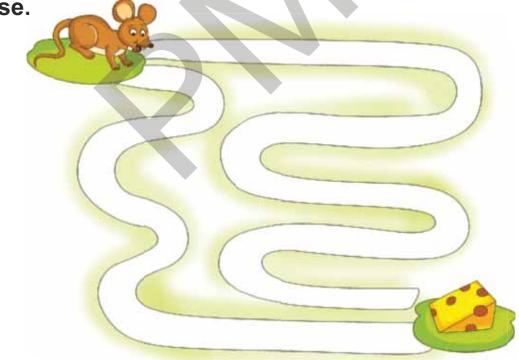




B. Colour the long tooth brush Green and the short one Red.



C. Colour the short route to help the mouse reach the piece of cheese.



#### For Parents:

You may take a piece of string and cut it into two pieces— one long and the other short. Ask your child to indicate the short and the long piece.











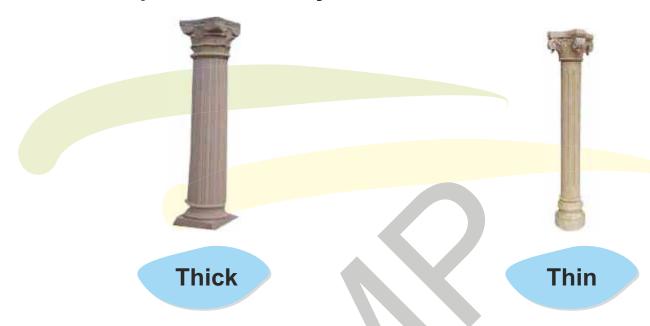




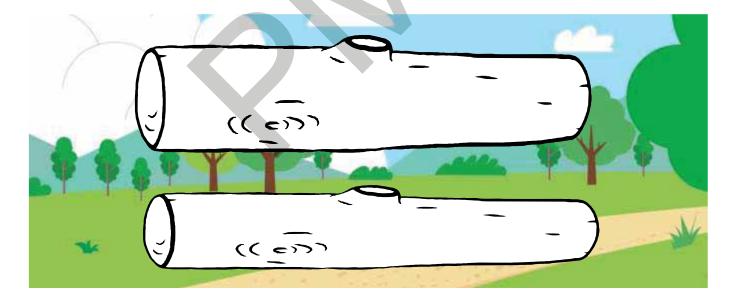
## Thick and Thin co



Point at the pictures and say Thick and Thin.



#### A. Colour the thick log.



#### For Teachers:



The objective of this chapter is to clear the concept of thickness. You may show the learners two objects of different thickness and ask them to compare their thickness.











#### B. Colour the thick tree Green.



### C. Circle the two poles which are of same thickness.



For Parents:

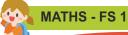
You may compare your fingers with those of your child and discuss the terms thick and thin. You may use other objects as well for this purpose.





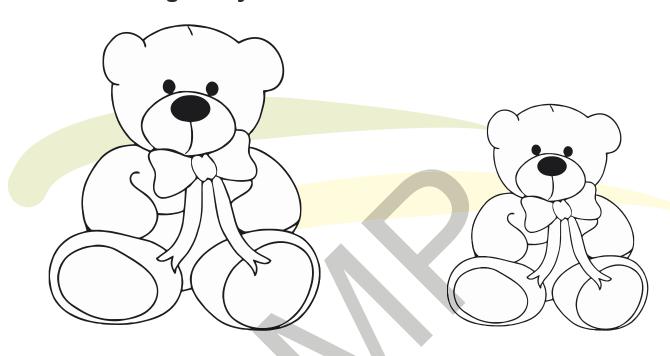




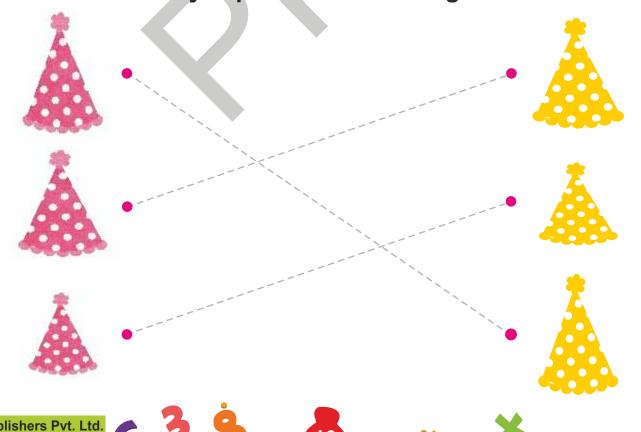




A. Colour the big teddy Red and the small one Green.



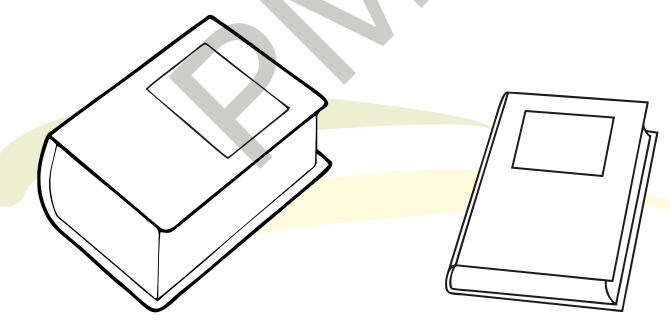
B. Match the birthday caps of the same height.



C. Tick (✓) two sticks which are of same height.



D. Colour the thick book Yellow and the thin book Blue.



#### For Parents:

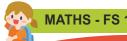
You may help your child hold the pencil properly. You may demonstrate how to hold and trace a line.







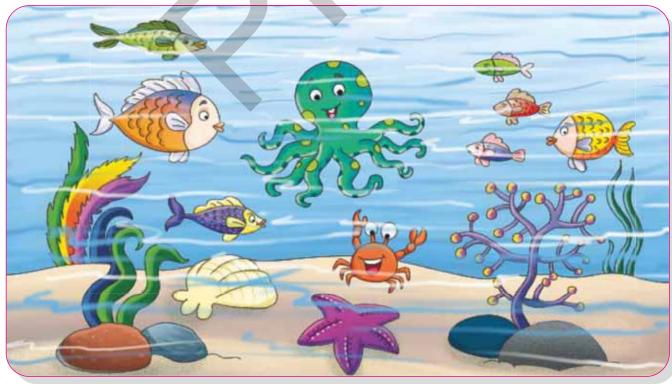






### Spot six diferences between these two pictures.



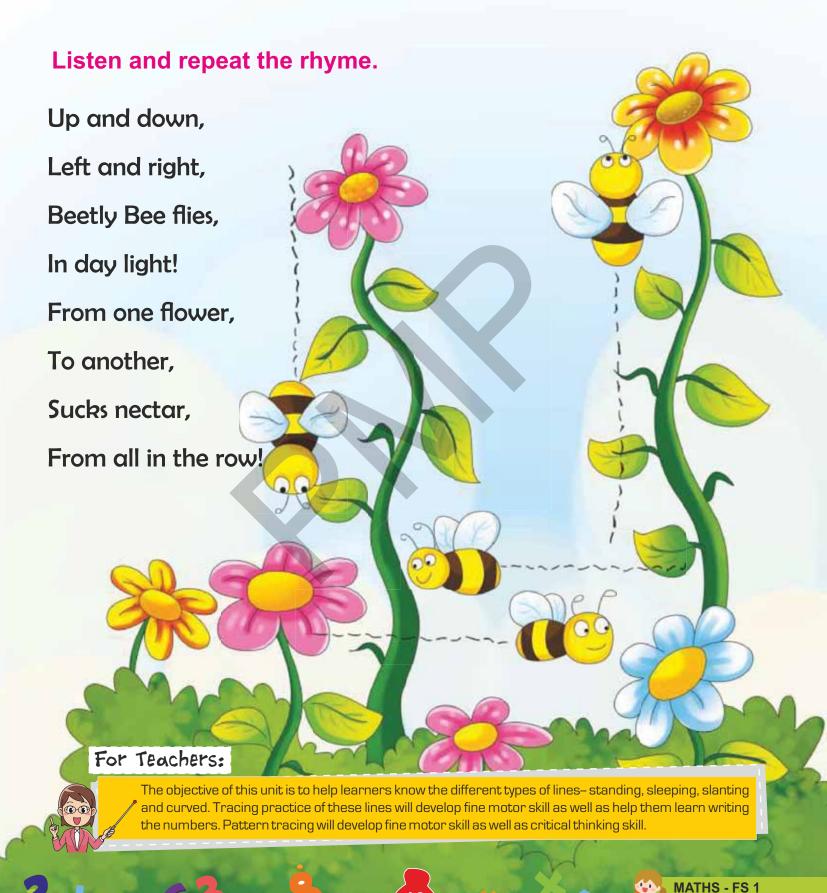






## Beetly Bee

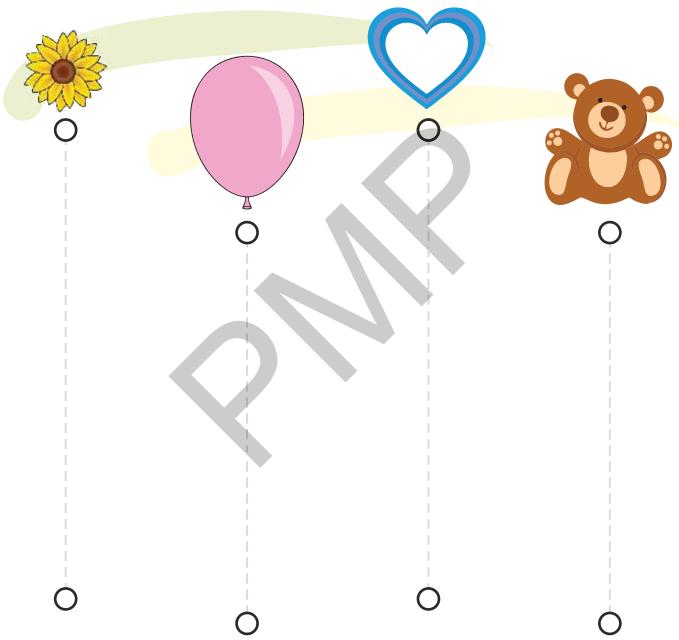




# Standing Lines 200



### Join O to O to draw standing lines.



#### For Parents:

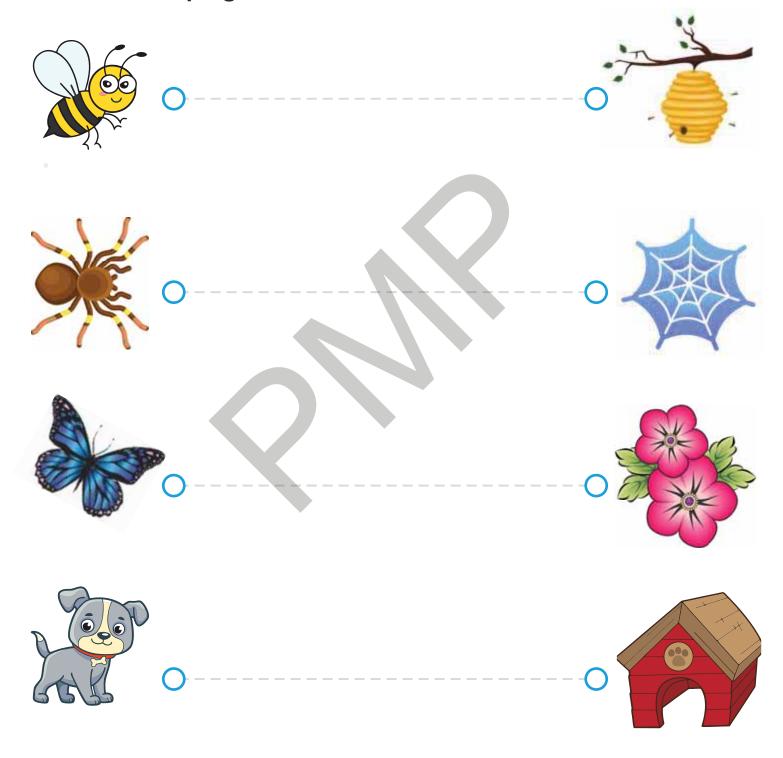
You may use a stick to demonstrate standing, sleeping and slanting lines. You can bend a stick a little to demonstrate a curved line.







### Trace the sleeping lines.



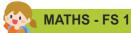




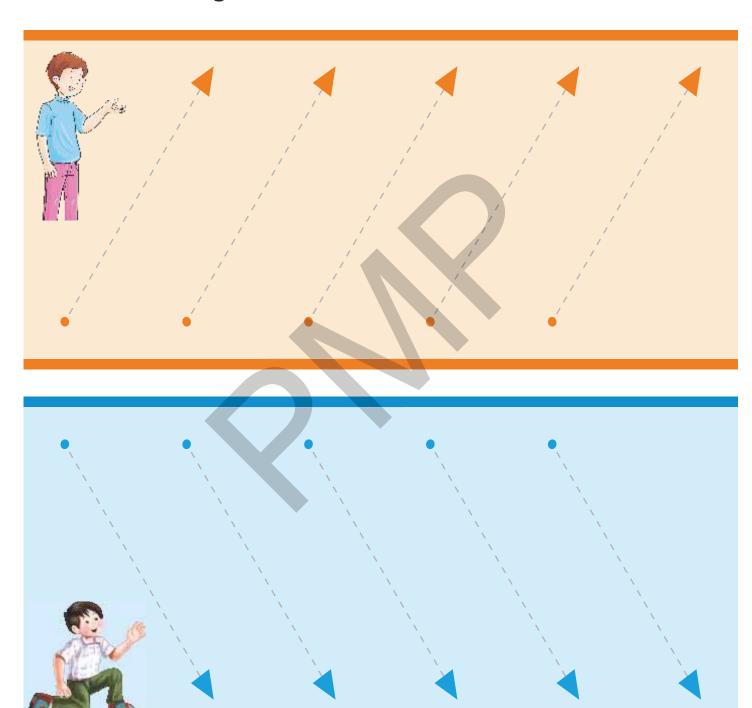




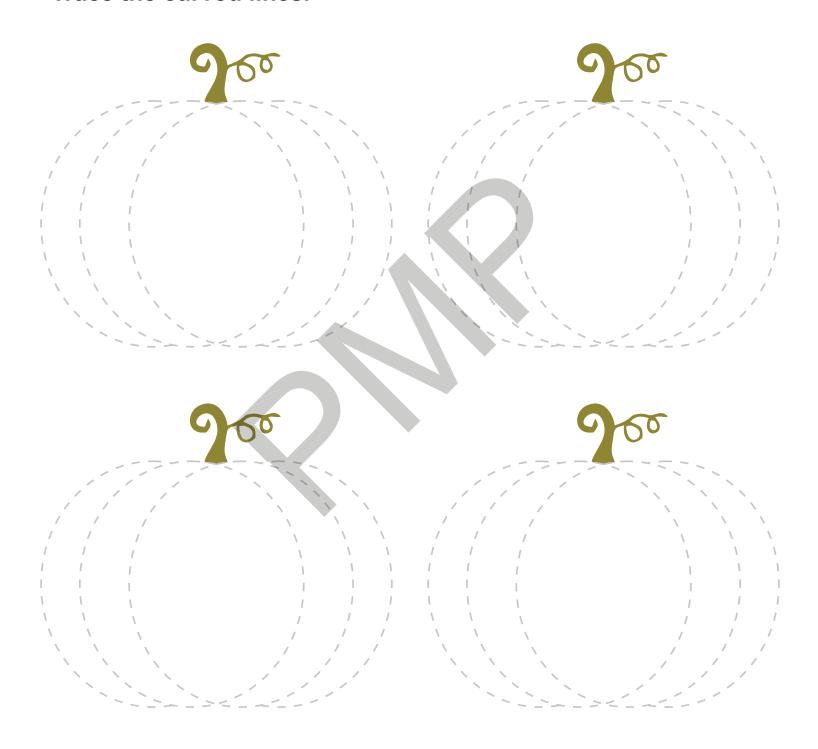




### Trace the slanting lines.



#### Trace the curved lines.





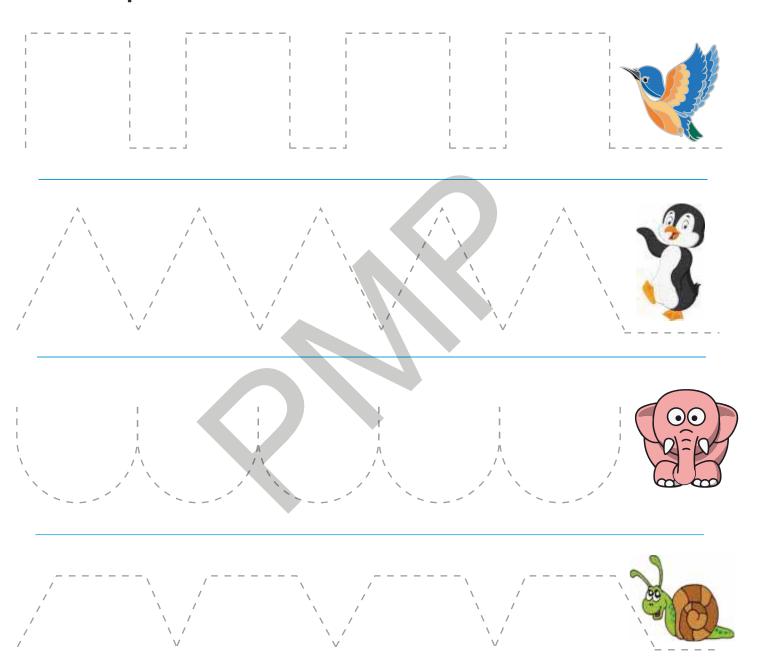








### Trace the pattern.



#### For Parents:

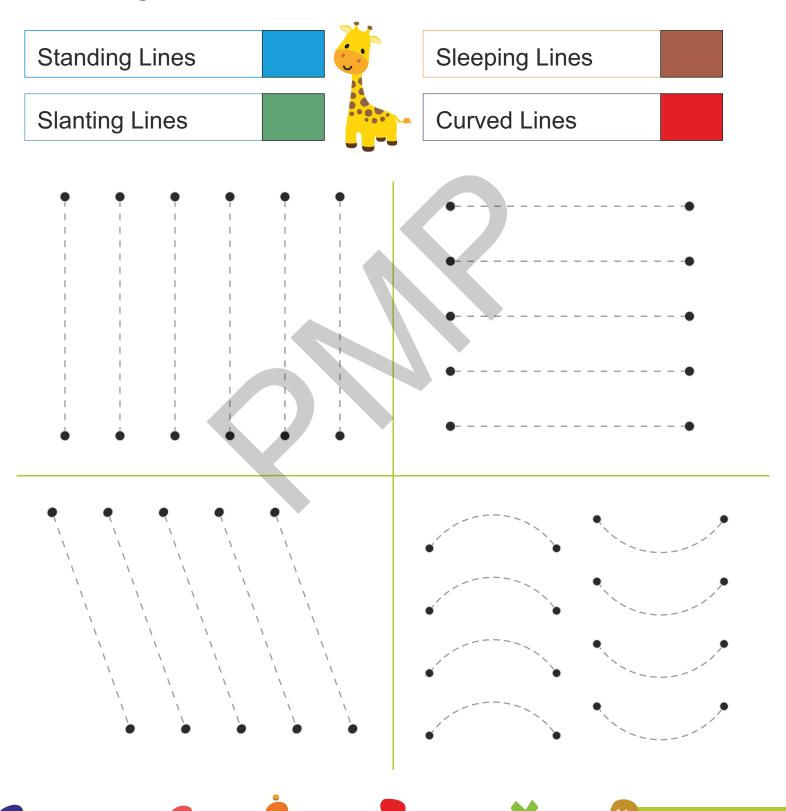
First, you should help your child move his/her index finger on the lines. Then you may hold the hand of your child to help him/her trace the given patterns with a crayon or pencil.







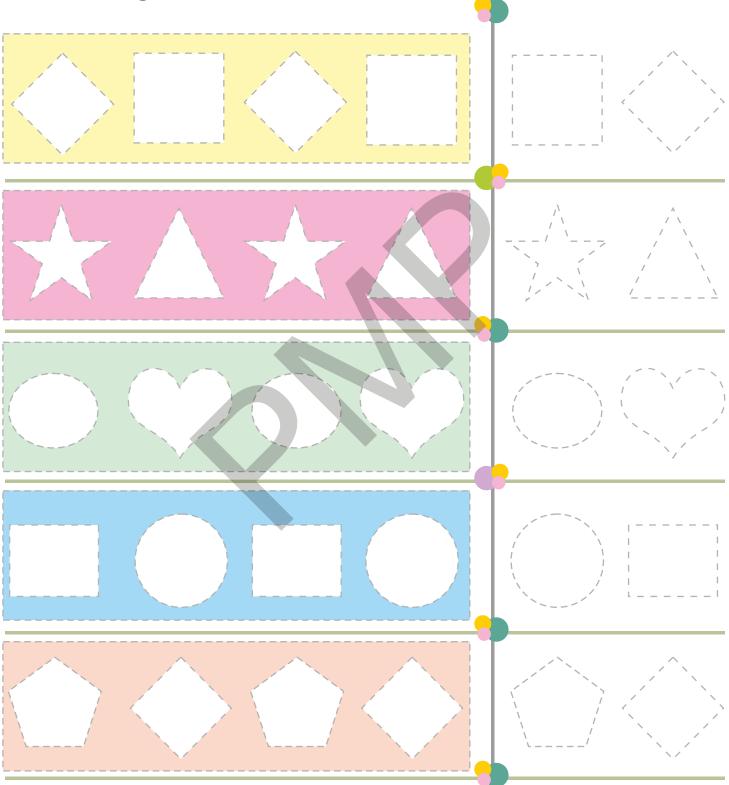
### Trace the given lines as mentioned.





Trace the figure that will come next.



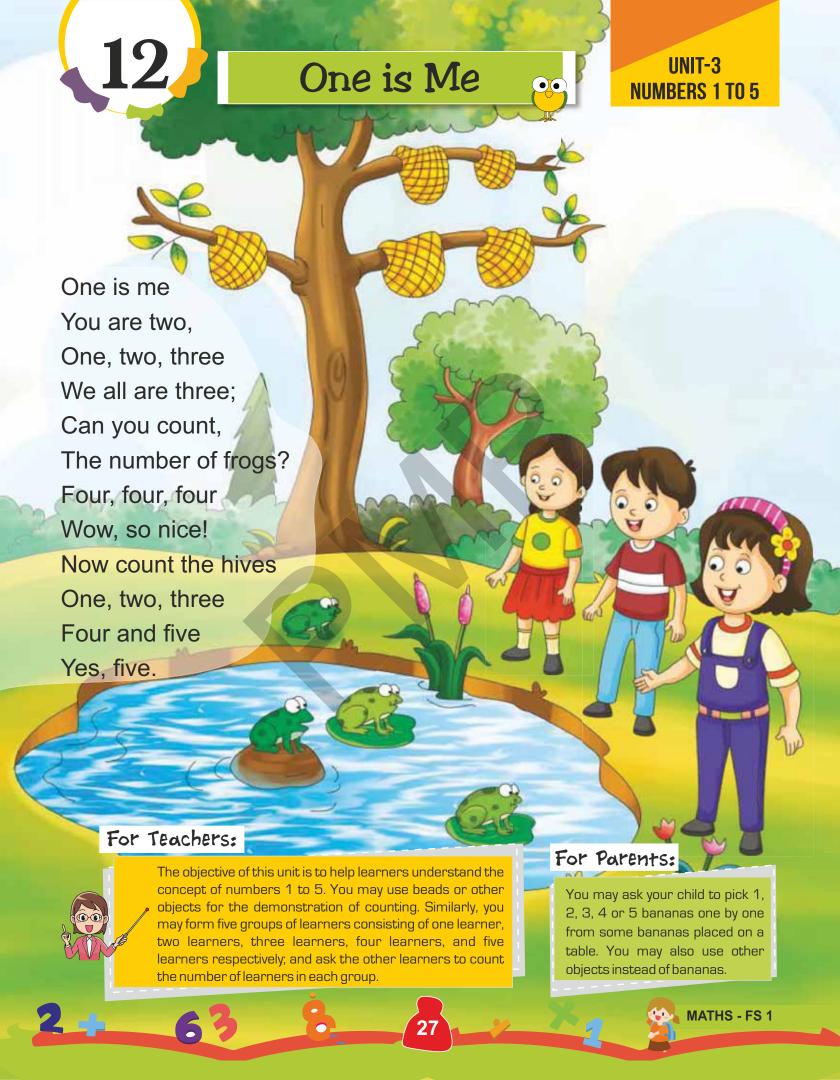














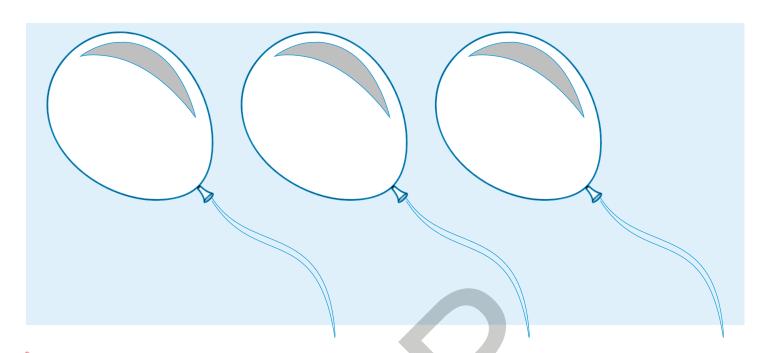
Point and say aloud.



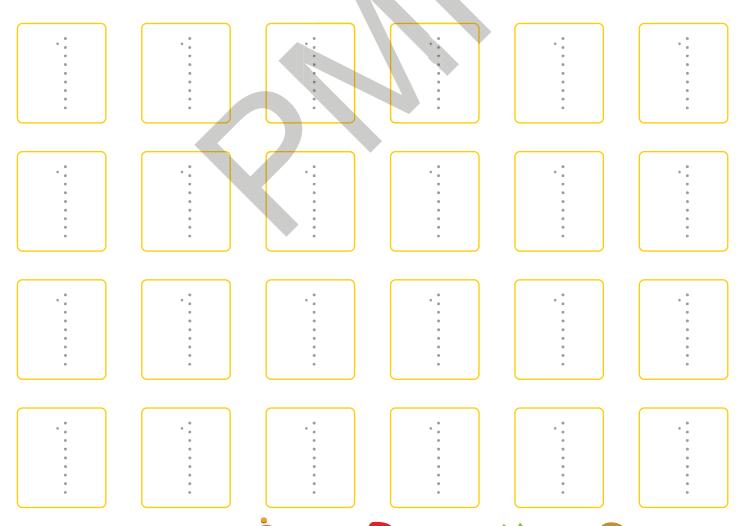
Trace with your finger and then with a crayon.



### Colour 1 balloon.



### Trace the number 1 with a pencil.

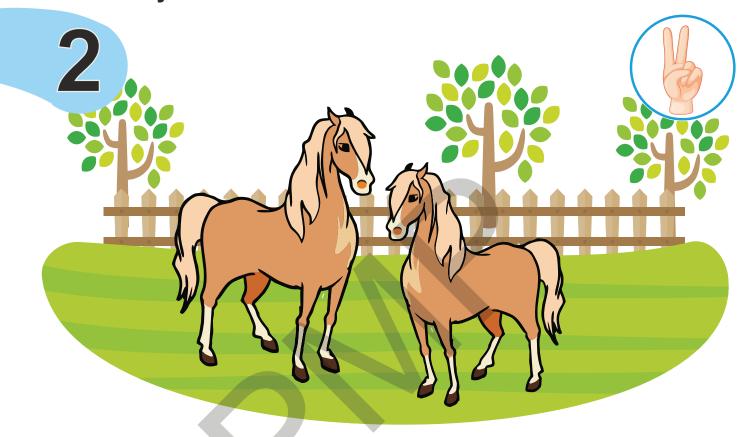


2 + 6





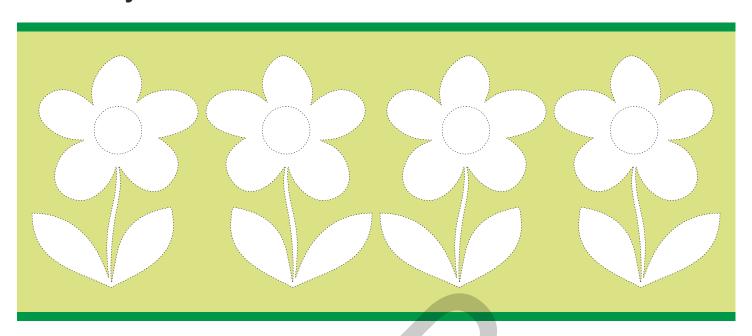
Point and say aloud.



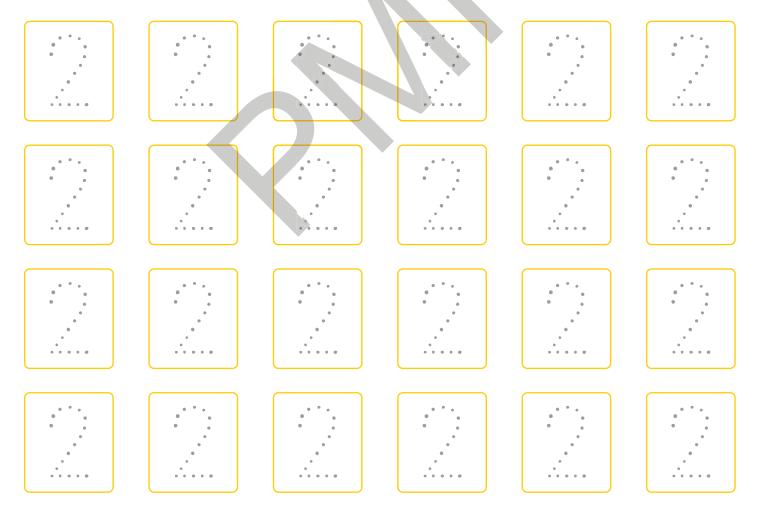
Trace with your finger and then with a crayon.



### Colour any 2 flowers.



### Trace the number 2 with a pencil.















## Number 3



### Point and say aloud.



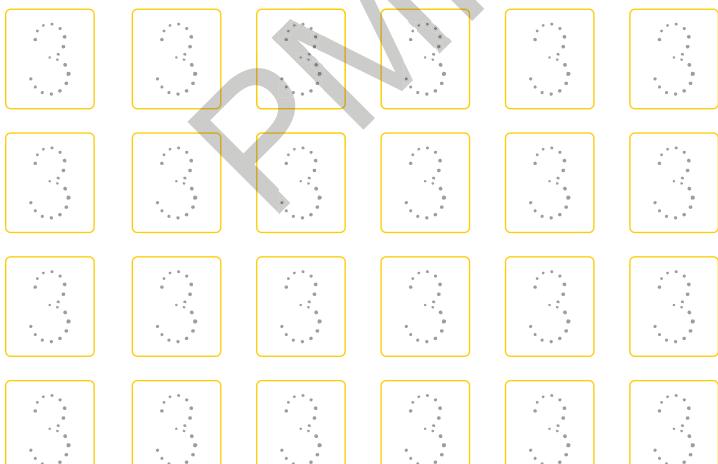
Trace with your finger and then with a crayon.



### Colour 3 candles.



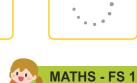
### Trace the number 3 with a pencil.











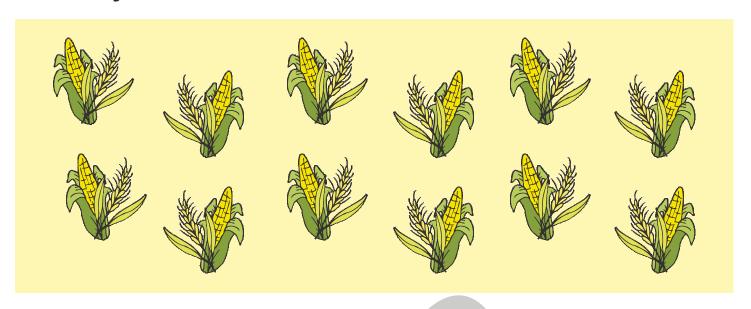
Point and say aloud.



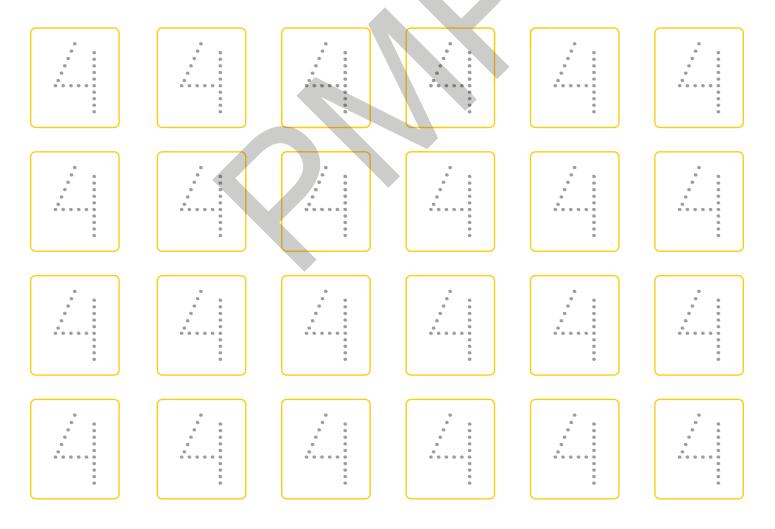
Trace with your finger and then with a crayon.



### Circle any 4 corn cobs.



### Trace the number 4 with a pencil.







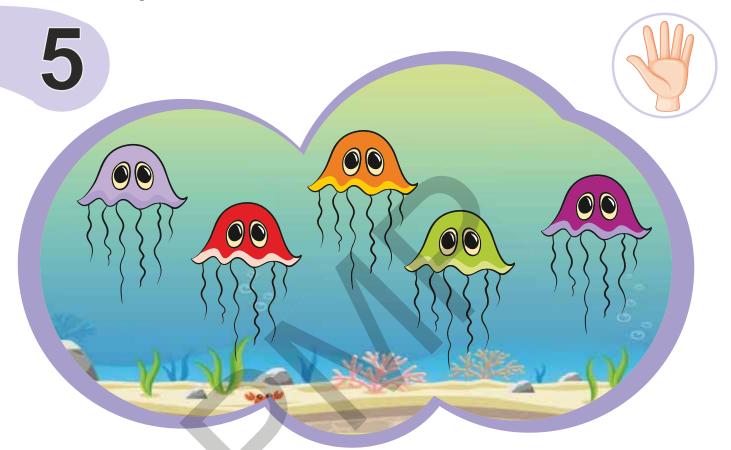








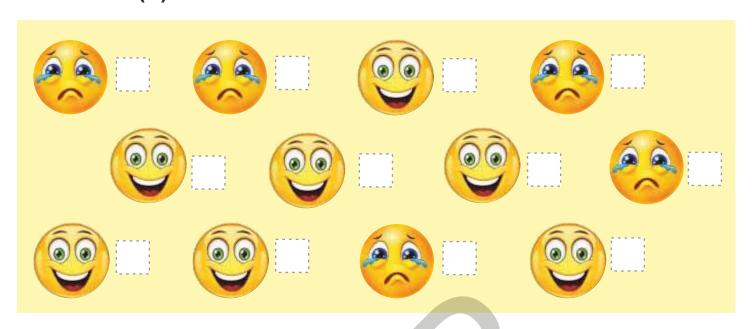
Point and say aloud.



Trace with your finger and then with a crayon.



## Cross out (x) 5 sad faces.



## Trace the number 5 with a pencil.

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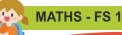
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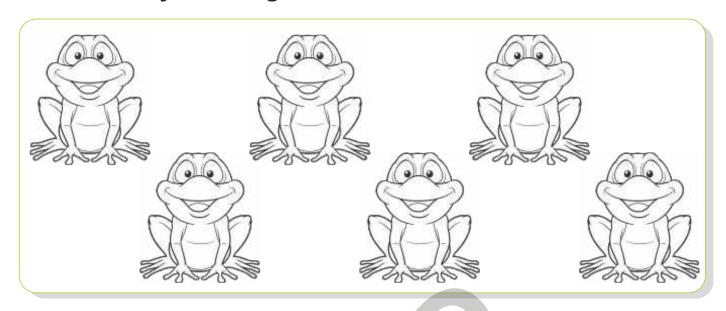




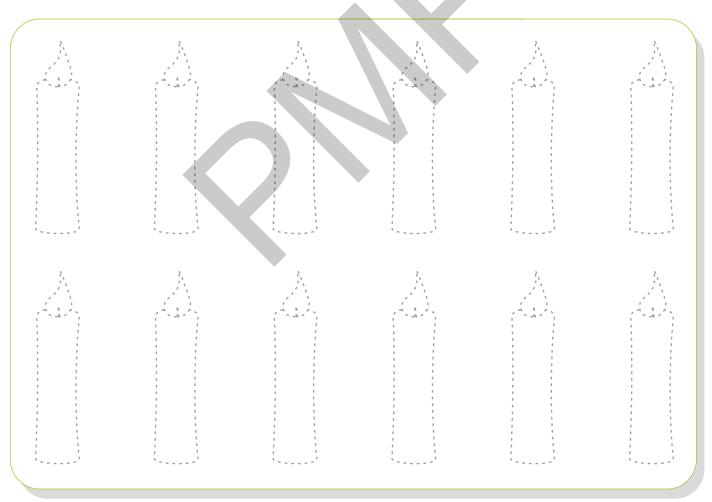




## B. Colour only four frogs.



## C. Trace and colour as many candles as your age is.





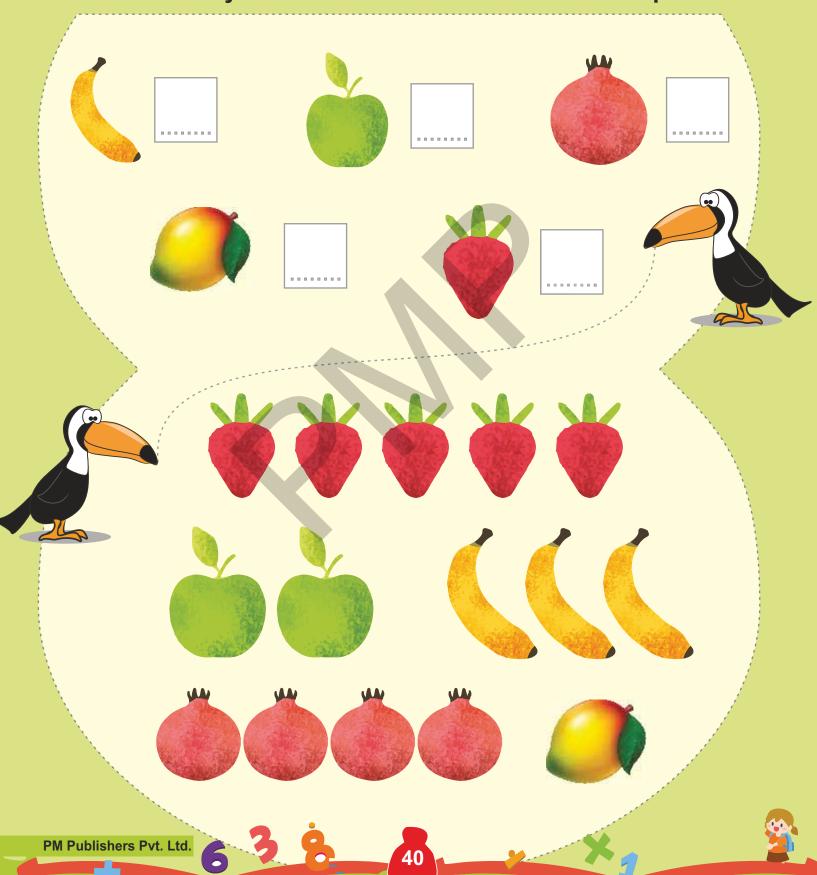








Count how many of each of the fruits are there in the picture.



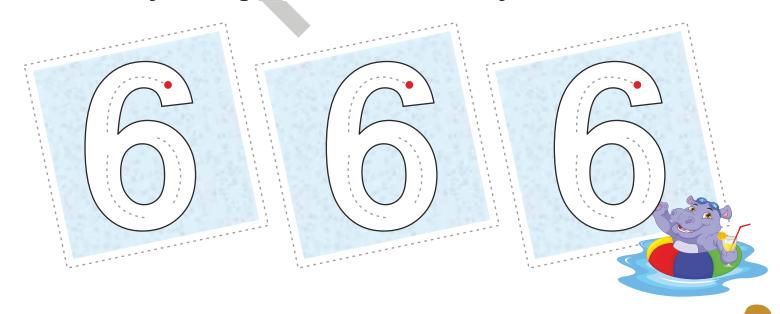




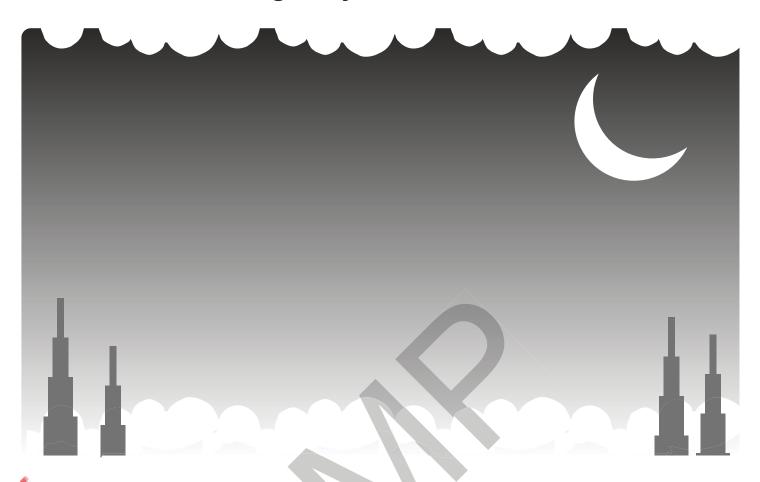
Point and say aloud.



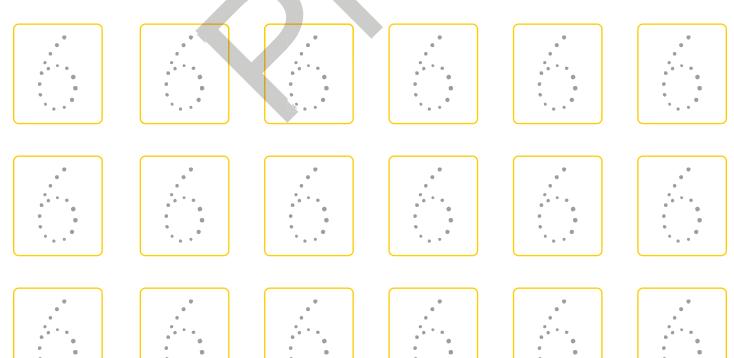
Trace with your finger and then with a crayon.



### Paste 6 stars in the night sky.



## Trace the number 6 with a pencil.











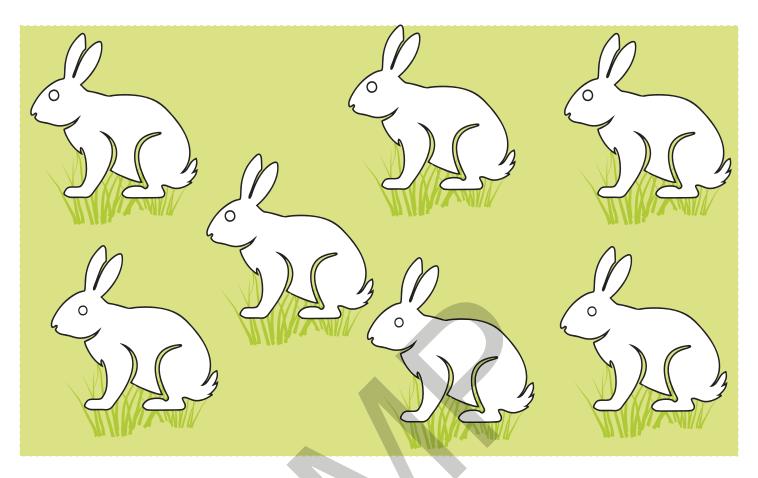
Point and say aloud.



Trace with your finger and then with a crayon.



#### Paste cotton on all the 7 rabbits.



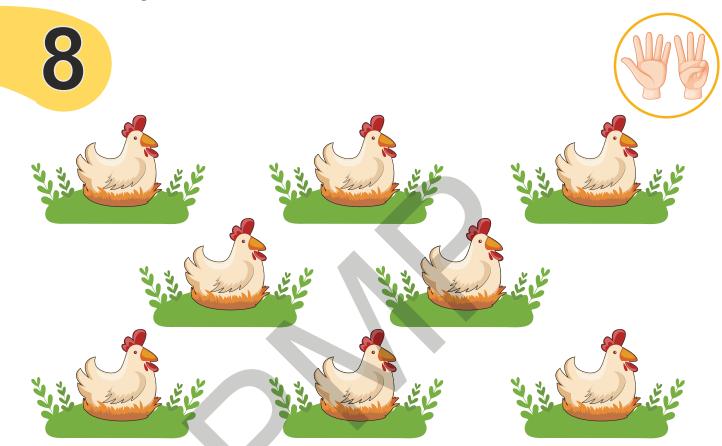
## Trace the number 7 with a pencil.



# Number 8



Point and say aloud.



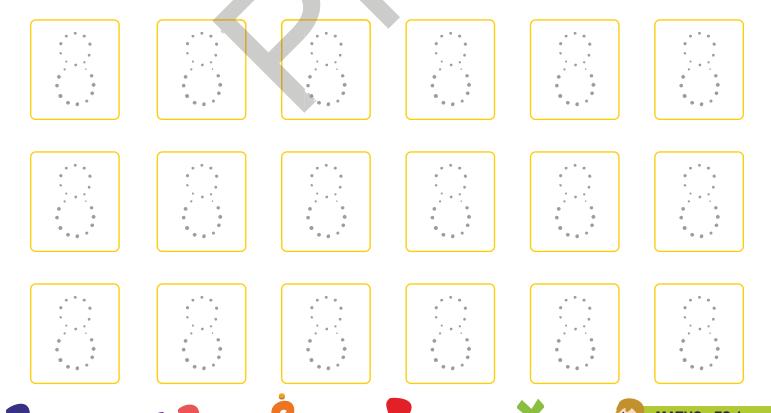
Trace with your finger and then with a crayon.



### Trace as many eggs as the ducks are shown.

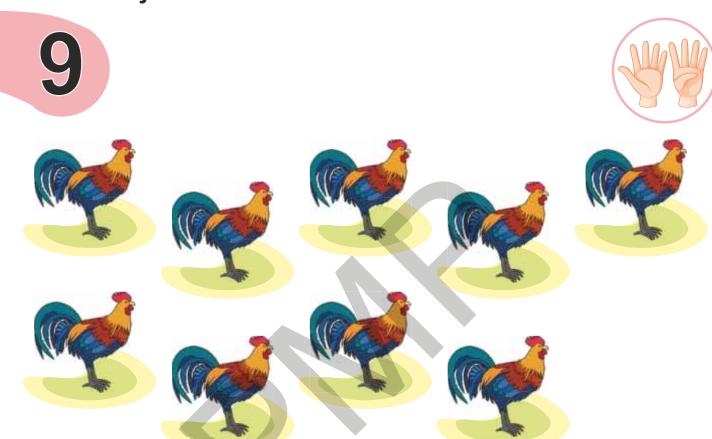


## Trace the number 8 with a pencil.





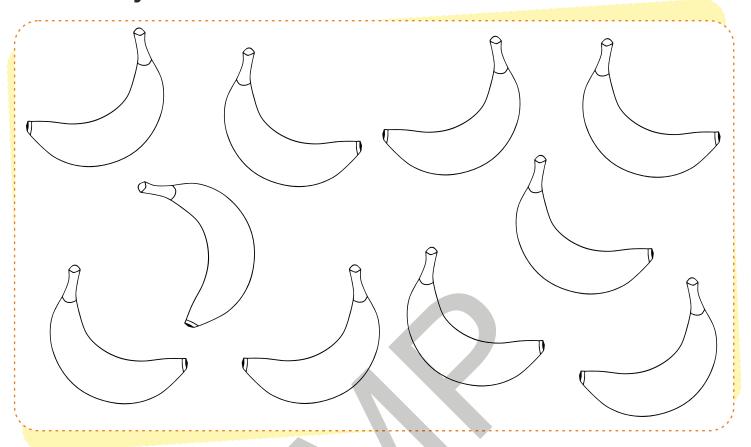
Point and say aloud.



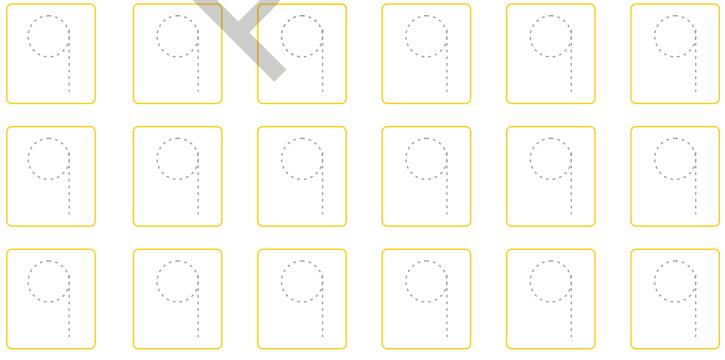
Trace with your finger and then with a crayon.



## Colour only 9 bananas.



## Trace the number 9 with a pencil.















## Number O



#### Look at the pictures.



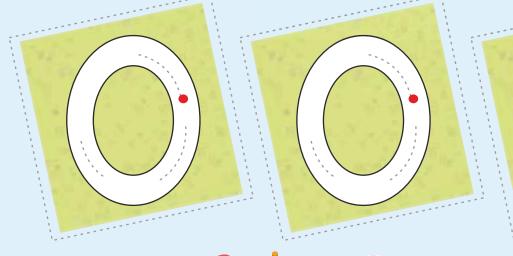
There were 2 birds on the tree.

1 bird flew away.

1 bird was left on the tree.
It also flew away.

0 birds are left on the tree.

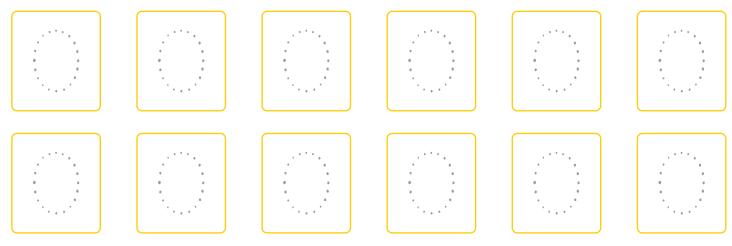
Trace with your finger and then with a crayon.



How many birds are left in the cage? Should we keep birds in a cage?











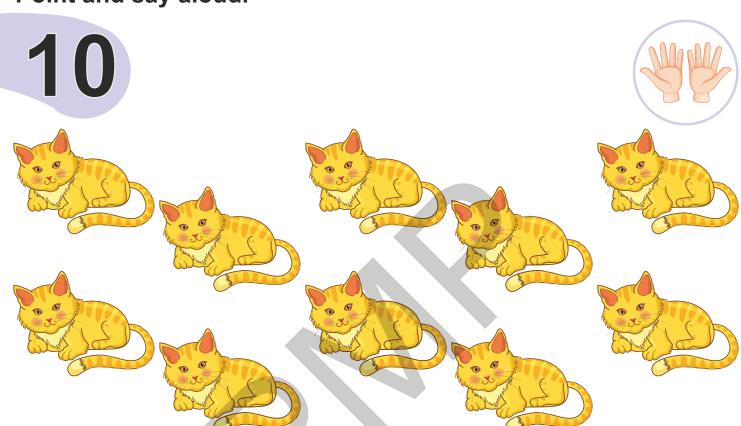




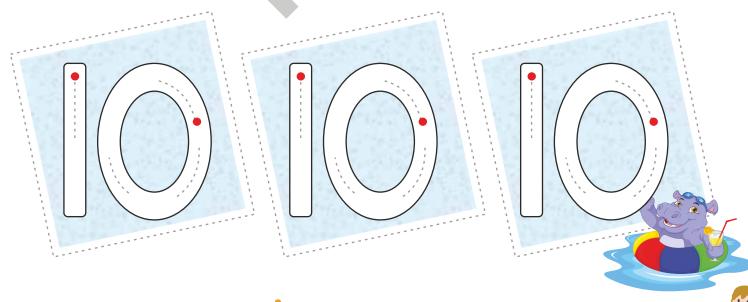
# Number 10



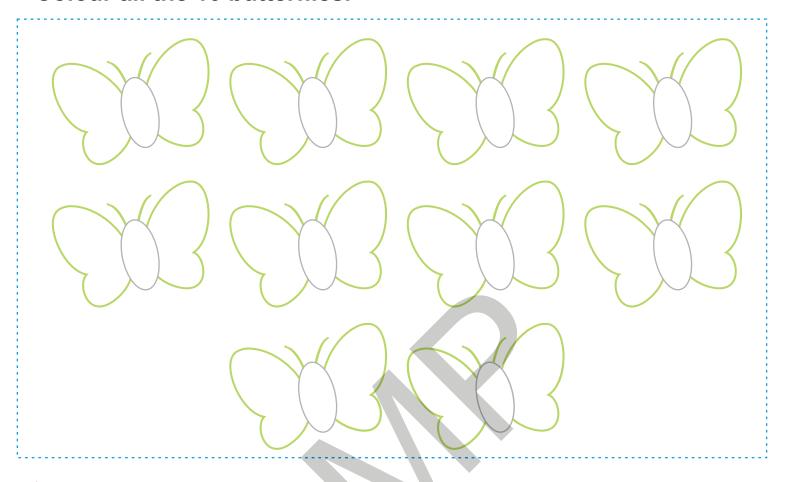
### Point and say aloud.



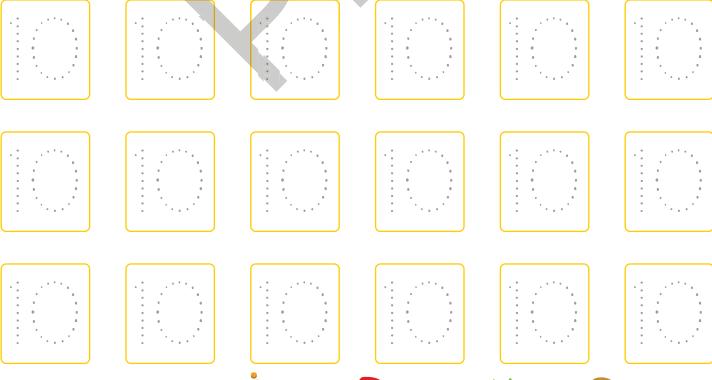
Trace with your finger and then with a crayon.



#### Colour all the 10 butterfiles.



## Trace the number 10 with a pencil.





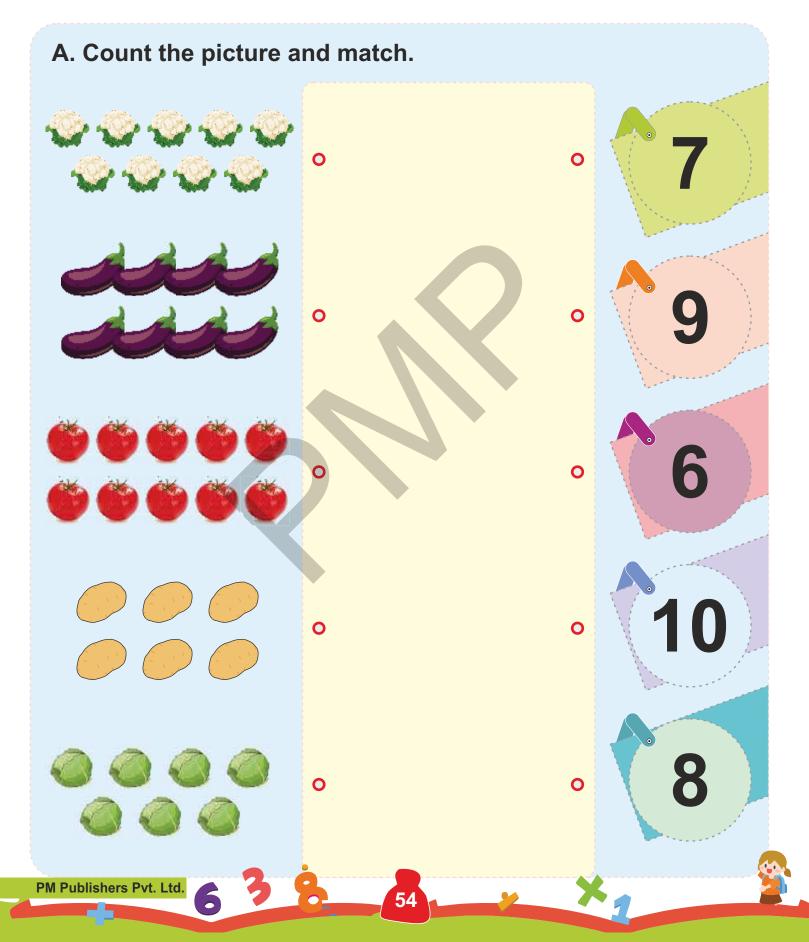




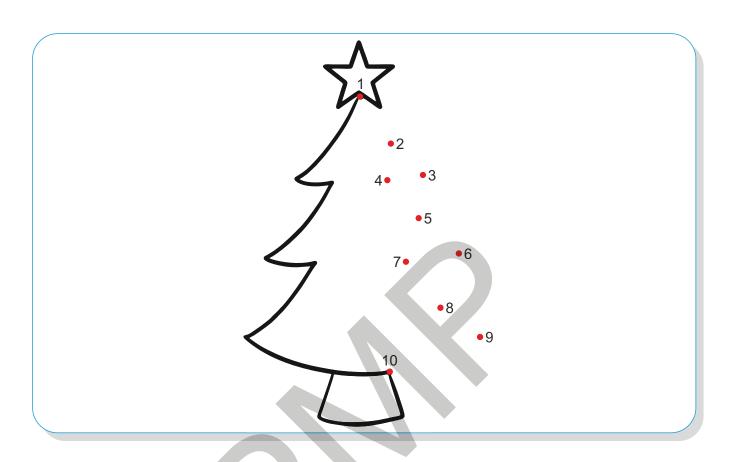




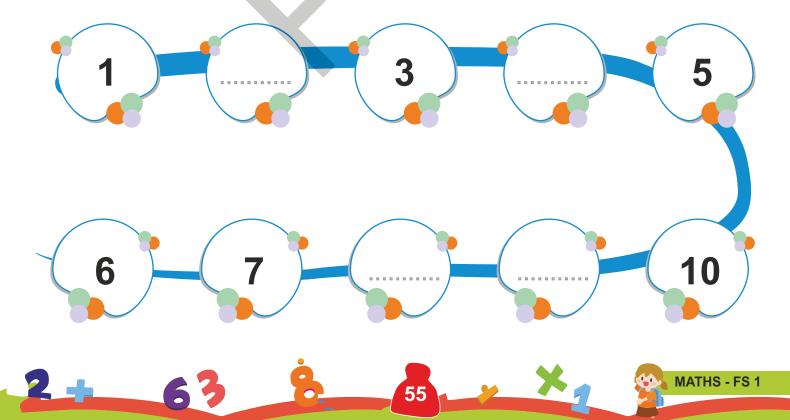




B. Join numbers 1 to 10 to complete the picture of Christmas Tree. Also, colour it.

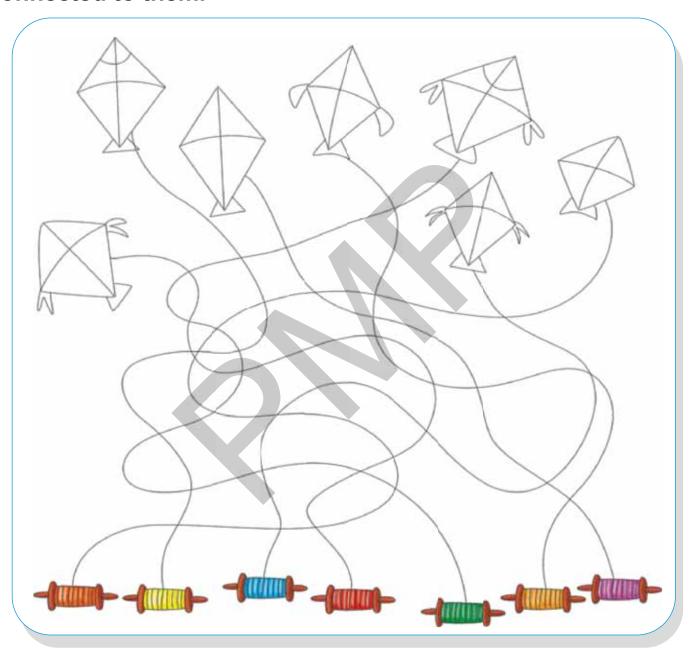


C. Fill in the missing numbers.

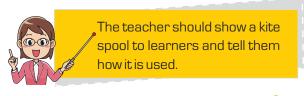




Colour the kites with the same colour as the kite spools connected to them.



#### For Teachers:











# Talking Shapes

#### Listen and repeat the rhyme.

I am a chessboard,

I look like a square,
I am a sandwich,
What shape is mine?
Yes you are right,
I look like a triangle!
Guess who I am,

I am a wheel.

Round and round,

Just like a circle!





#### For Teachers:



The objective of this unit is to help learners understand basic shapes—square, circle and triangle. Tracing practice of these shapes also develops fine motor skills. You may take the learners to the ground and divide them into three groups and then help each group form a shape.

#### For Parents:

You may show objects of different shapes such as chessboard, sandwich, bangle, etc. and help your child know the shapes—square, triangle and circle.









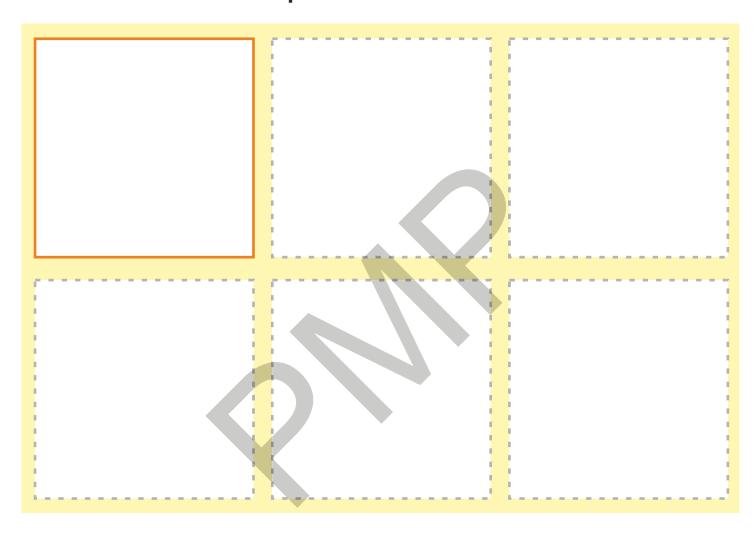




## Square

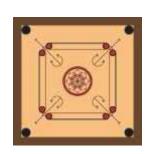


Fill colour in the first square and trace the others.



Circle the shapes that are squares.



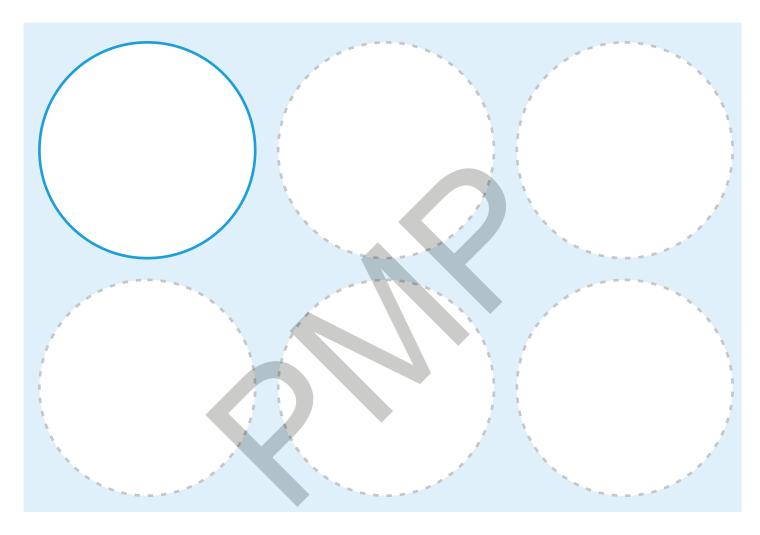








Fill colour in the first circle and trace the others.



Circle the shapes that are circles.













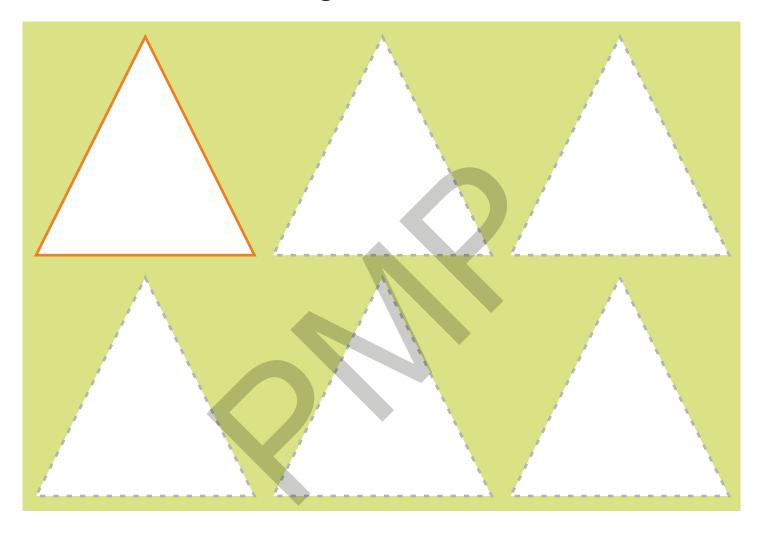




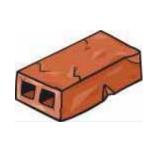
# Triangle



Fill colour in the first triangle and trace the others.



Circle the shapes that are triangles.







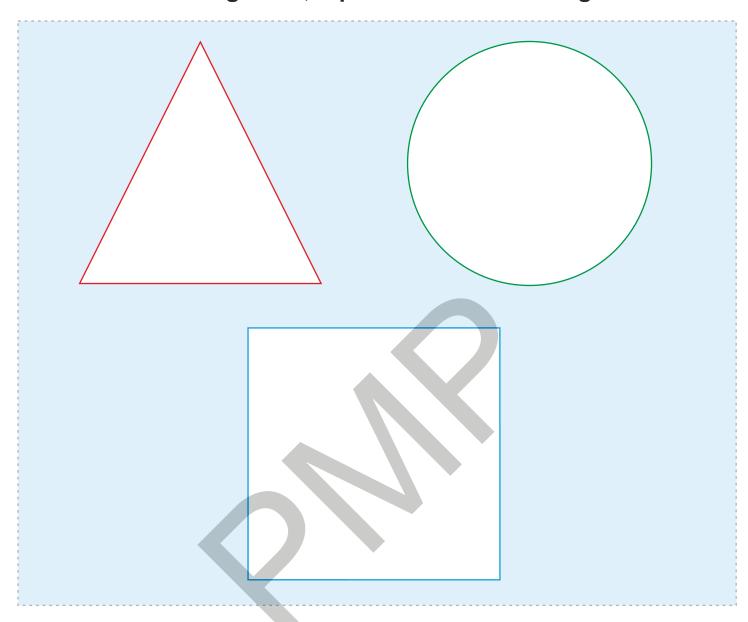




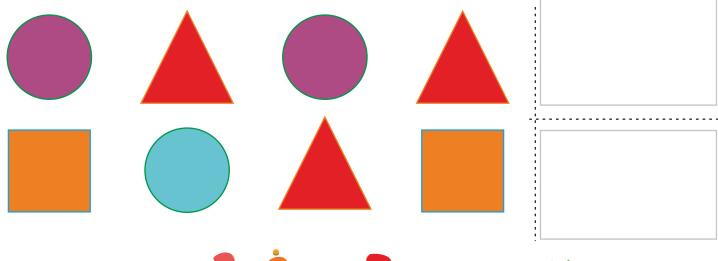
### A. Match the objects with correct shapes.



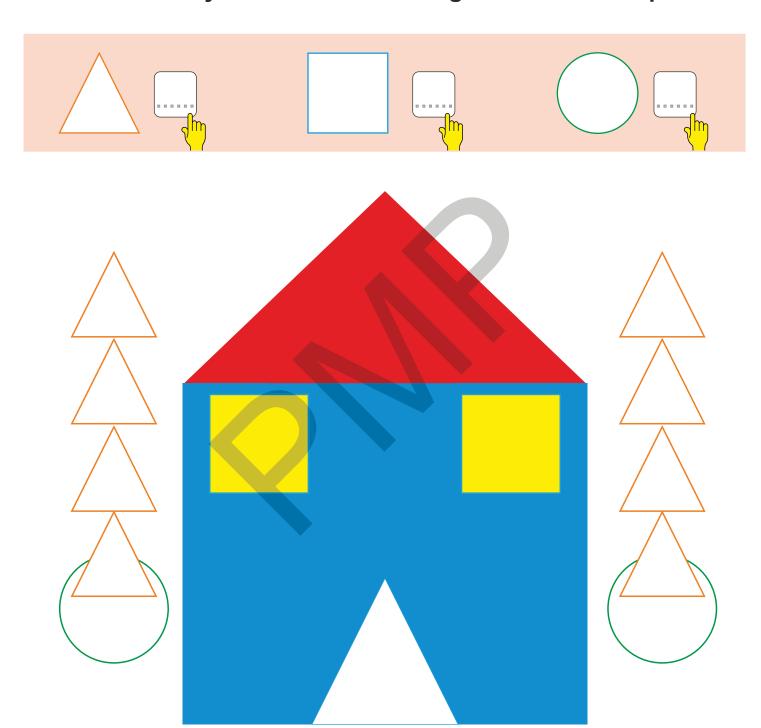
B. Colour the triangle red, square blue and circle green.



C. What will come next? Draw and colour in the box.



Count how many each of the following are there in the picture.













#### Listen to the story.

There were 10 dwarfs. They lived happily in an old house. It was the birthday of Molu Dwarf. All the other dwarfs wished him 'Happy Birthday'. They decided to celebrate the birthday in the evening.

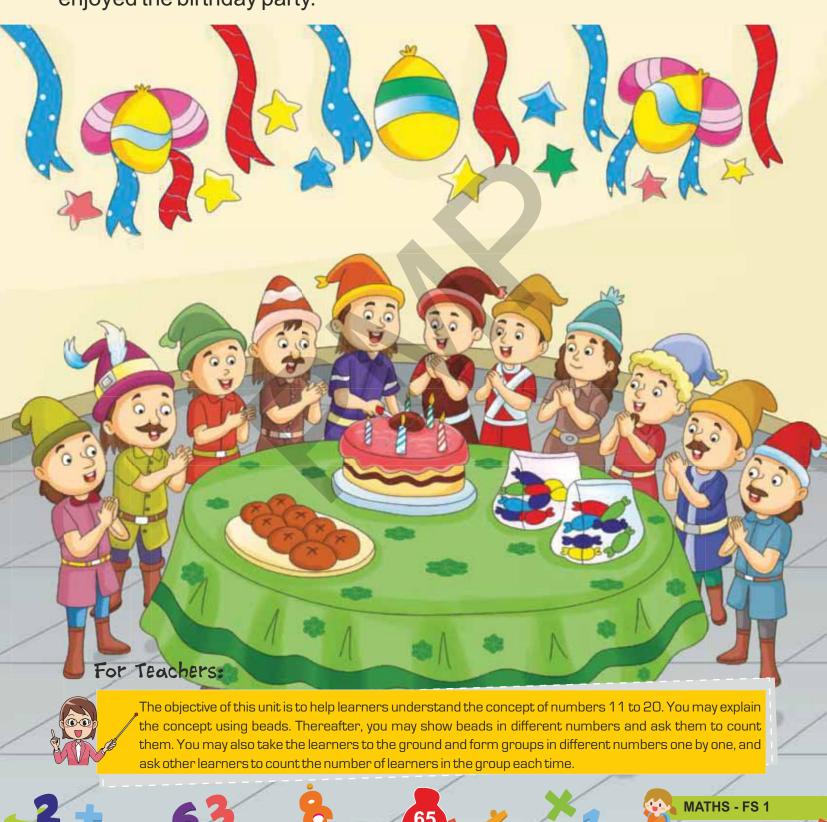


3 dwarfs went to the market and bought a big cake. They also bought 5 candles, 8 buns and 2 packets of toffees.



Golu Dwarf decorated the room with 6 blue ribbons and 4 red ribbons. Bolu Dwarf decorated the room with 7 balloons. Dolu Dwarf hanged 9 stars.

Molu Dwarf invited his dwarf friend. In the evening, all the 11 dwarfs enjoyed the birthday party.





# Numbers 11-15

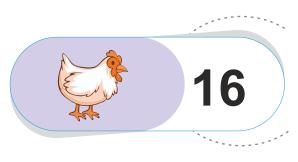
#### Point and say aloud.

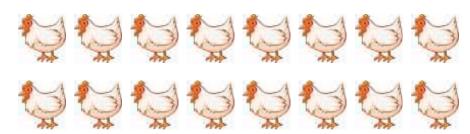




# Numbers 16-20

#### Point and say aloud.



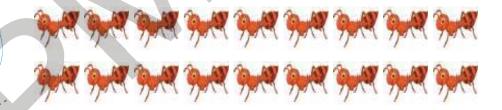








18





19





20













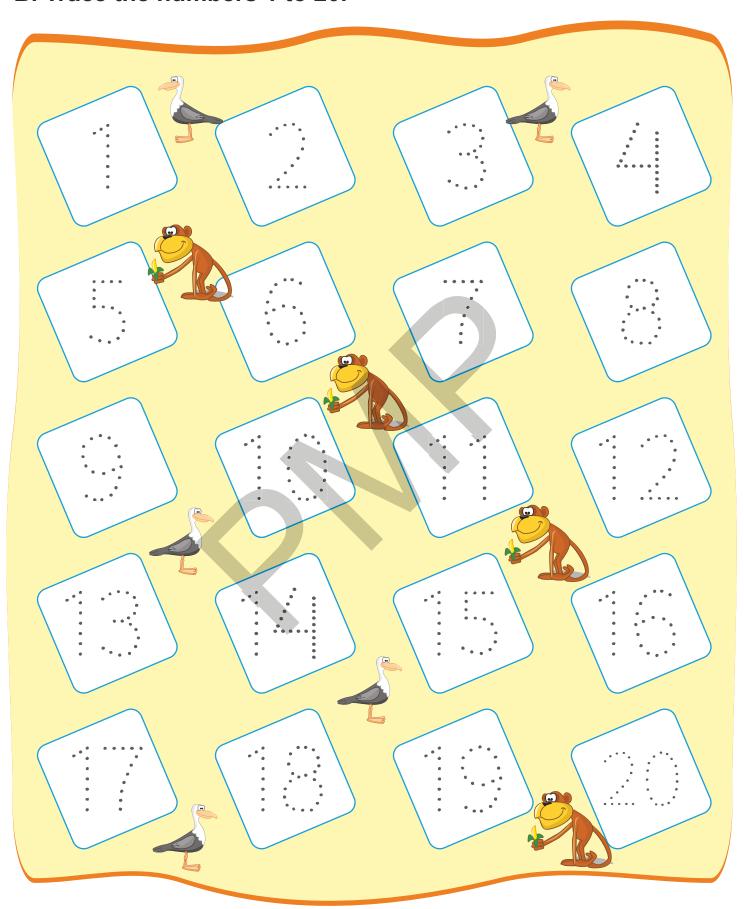




## A. Count and colour the box containing correct number.

	12	0000	14
	16		13
	18		15
	14		11
	11	0000	12
2222	17		13
		4 4 4 4 4	
	18	THE RESERVE OF THE PARTY OF THE	15
	19	A SEA SEA SEA	17
	20	VINEA VINEA VINEA VINEA	19
	·		
	17		17
	20		13
AAAAA	14		18
	11		18
	12		16
	13		20

### B. Trace the numbers 1 to 20.











### C. Fill in the missing numbers.



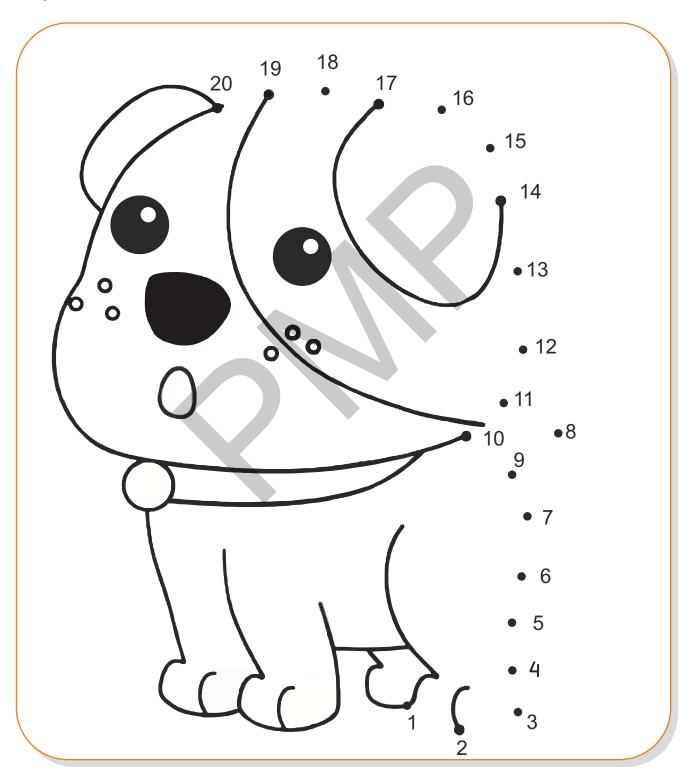








Join the numbers from 1 to 20 to get a picture. Name the animal. Also, colour it.











### **TEACHER'S OBSERVATION REPORT**

Continuous observation of children's progress by the teacher is an important aspect of **NIPUN BHARAT**. We can assess a child's development in different skills by closely observing them throughout the academic year. Here is a chart to be filled in by the teacher. The chart will be helpful for the parents also to help and guide their children accordingly.

SI.No.	Area of Observation	Requires attention/assistance from facilitator	Able to complete tasks with little assistance	Able to complete tasks without assistance	Hard spots	Remarks
1.	Physical and Motor Skill					
2.	Cognitive Skill					
3.	Social-emotional Skill					
4.	Cultural/Artistic Skill					
5.	Communication and Early Language Skill					
6.	Literacy Skill					
7.	Numeracy Skill					

