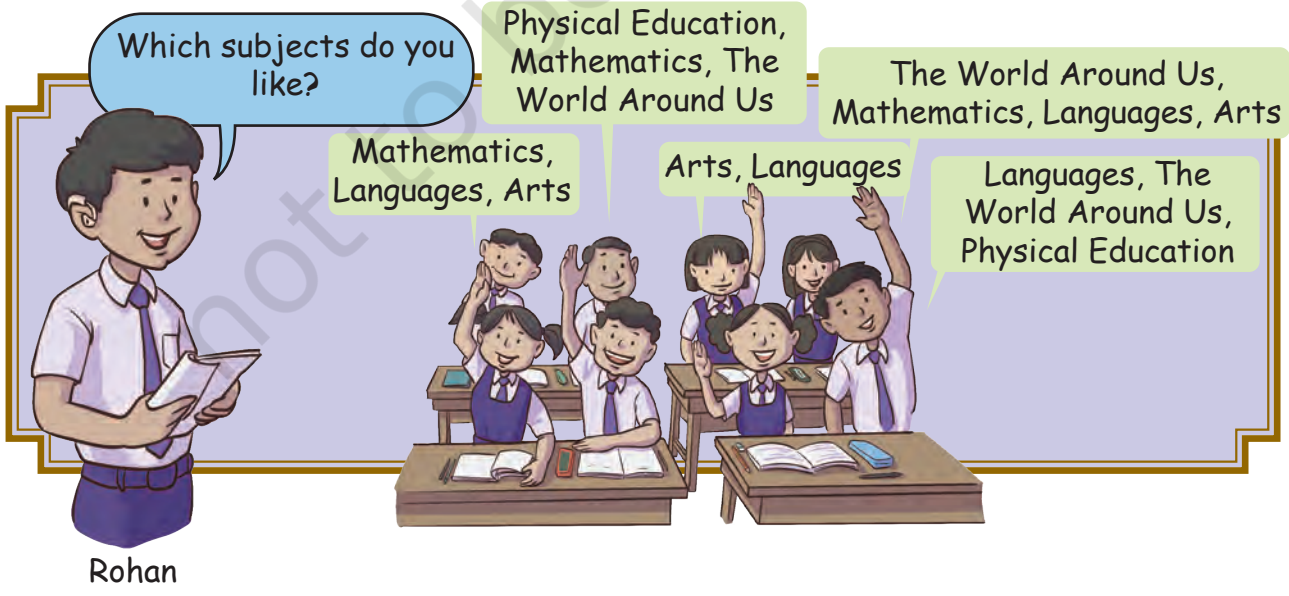
Chapter 14

Data Handling

0433CH14

Look at the questions asked by Rohan and Anjali.

Tick the question that is the most appropriate for finding the 'most liked subject'? Why do you think so? Discuss with your friends and teacher.



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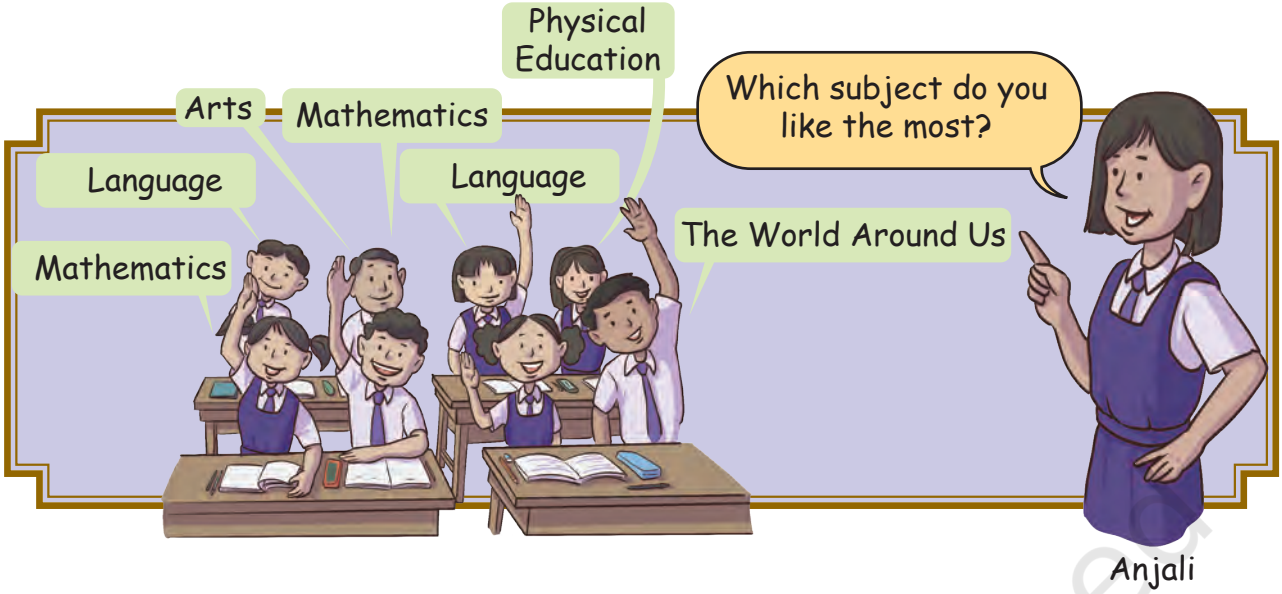
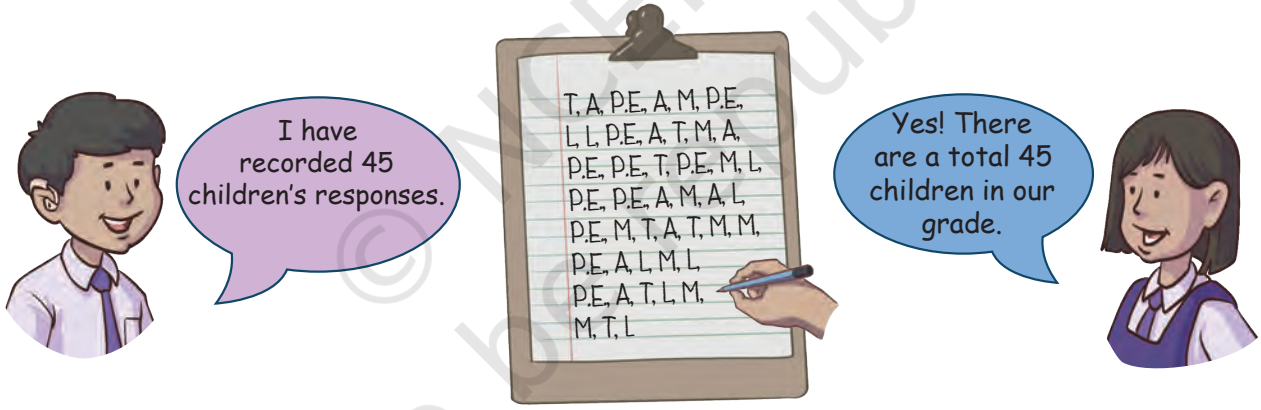


Anjali and Rohan recorded the children's answers (responses) to the above question as follows:

They wrote M for Mathematics, L for Languages, T for The World Around Us, A for Arts and P.E. for Physical Education.



Look at the children's responses above and answer the following questions:

- The number of children who like Mathematics the most is _____ .
- The number of children who like Language the most is _____ .
- The number of children who like The World Around Us the most is _____ .
- The number of children who like Physical Eduation the most is _____ .
- The number of children who like Arts the most is _____ .

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Let's fill the above information in this table.

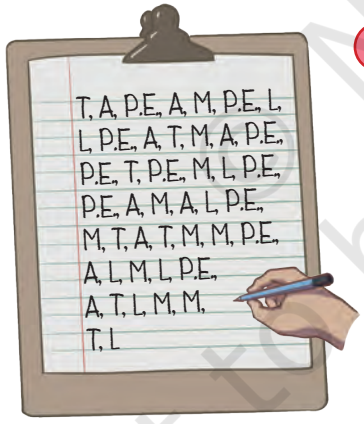
Subjects	No. of Children
Mathematics (M)	_____
Languages (L)	_____
The World Around Us (T)	_____
Physical Education (P.E.)	_____
Arts (A)	_____

Now look at the above table and answer the following questions:

- What is the most common favourite subject among the children?
  _____
- What is the least common favourite subject among the children?
  _____

There are the following two ways to display the information.

1



2

Subjects	No. of Children
Mathematics (M)	_____
Languages (L)	_____
The World Around Us (T)	_____
Physical Education (P.E.)	_____
Arts (A)	_____

Which way of displaying information is easier to understand and why?
_____

Note for Teachers: Discuss how a question needs to be framed and what words should be used.

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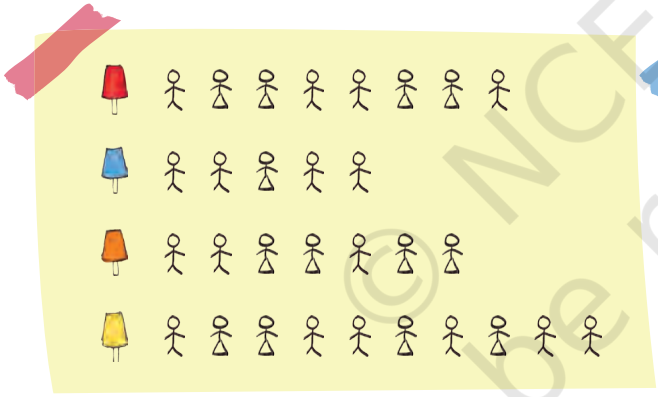
Colourful Golas

During school lunch break children rush to eat *gola* of their favourite colour.

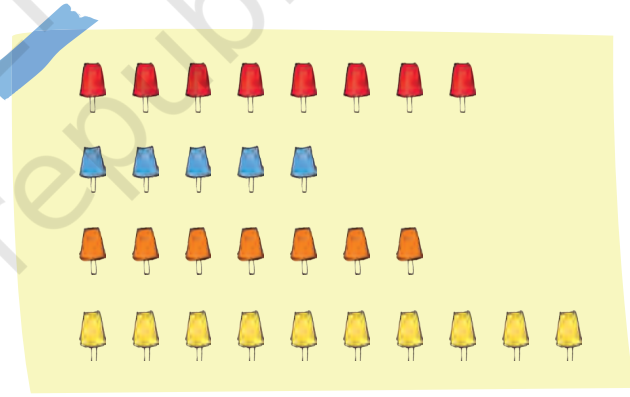
Rohan and Anjali record the *golas* eaten by different children. They want to eat the one that is most eaten by others.

They both start recording the *golas* eaten by the children.

Rohan



Anjali



Look at the information given above. Colour the line drawing of the golas appropriately.

1. Which colour ice *gola* do the children eat:

   a) the most

   b) the least

   How do you know?

2. Which colour *gola* would Anjali and Rohan have bought?

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3. Which colour *golas did* boys eat the most?

4. Which colour *golas did* girls eat the most?

5. Which of the ways of representing data did you use to answer these questions and why?

Activity — Chess or Cricket

Find out from your classmates how many of them play only chess, only cricket, both or neither.

Now let us organise the above data in the table.

Nature of Games	No. of Girls	No. of Boys
Chess but not Cricket		
Cricket but not Chess		
Both		
Neither		

Answer these questions based on the data collected from your grade.

1. Who plays Chess the most? _____ (Boys/Girls)
2. Who plays Cricket the most? _____ (Boys/Girls)
3. How many children play both types of games? _____

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Bal Mela

Anjali and Rohan have recorded the number of people who ate fruit chaats and sandwiches in the Bal Mela over three days, using a Pictograph.

Anjali: Fruit Chaat

Days	Total Fruit Chaats
Day 1	
Day 2	
Day 3	

Rohan: Sandwiches

Days	Total Sandwiches
Day 1	
Day 2	
Day 3	

Let Us Do

1. Complete the table.

Items	Total Sold Items
Fruit Chaats	
Sandwiches	

2. On which day were the most sandwiches sold?
3. Which item had the highest sale on Day 2?
4. Complete the table given below. Circle the day that had the highest sales.

Day	Total Sales
Day 1	
Day 2	
Day 3	

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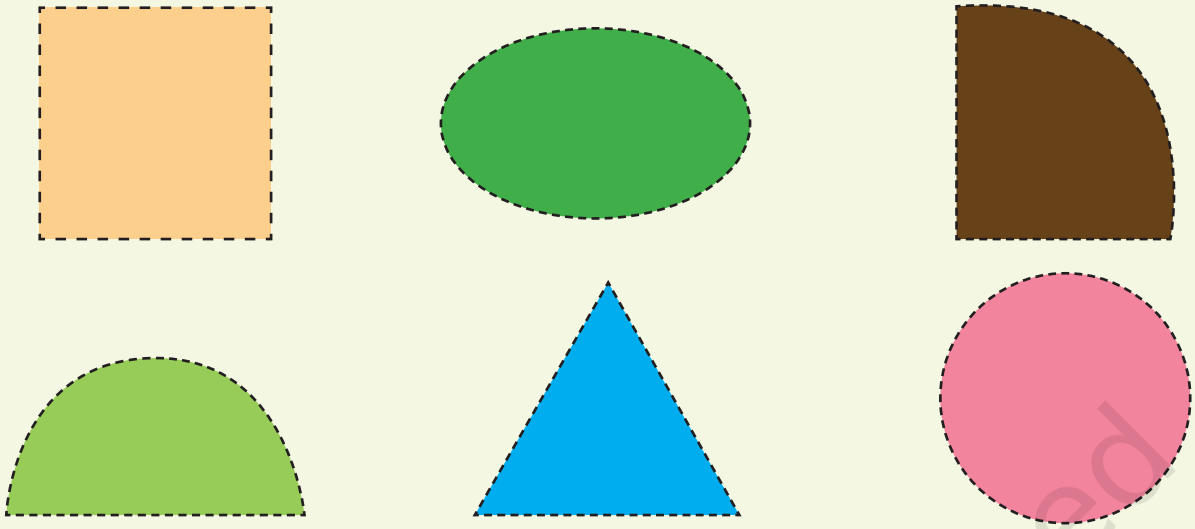
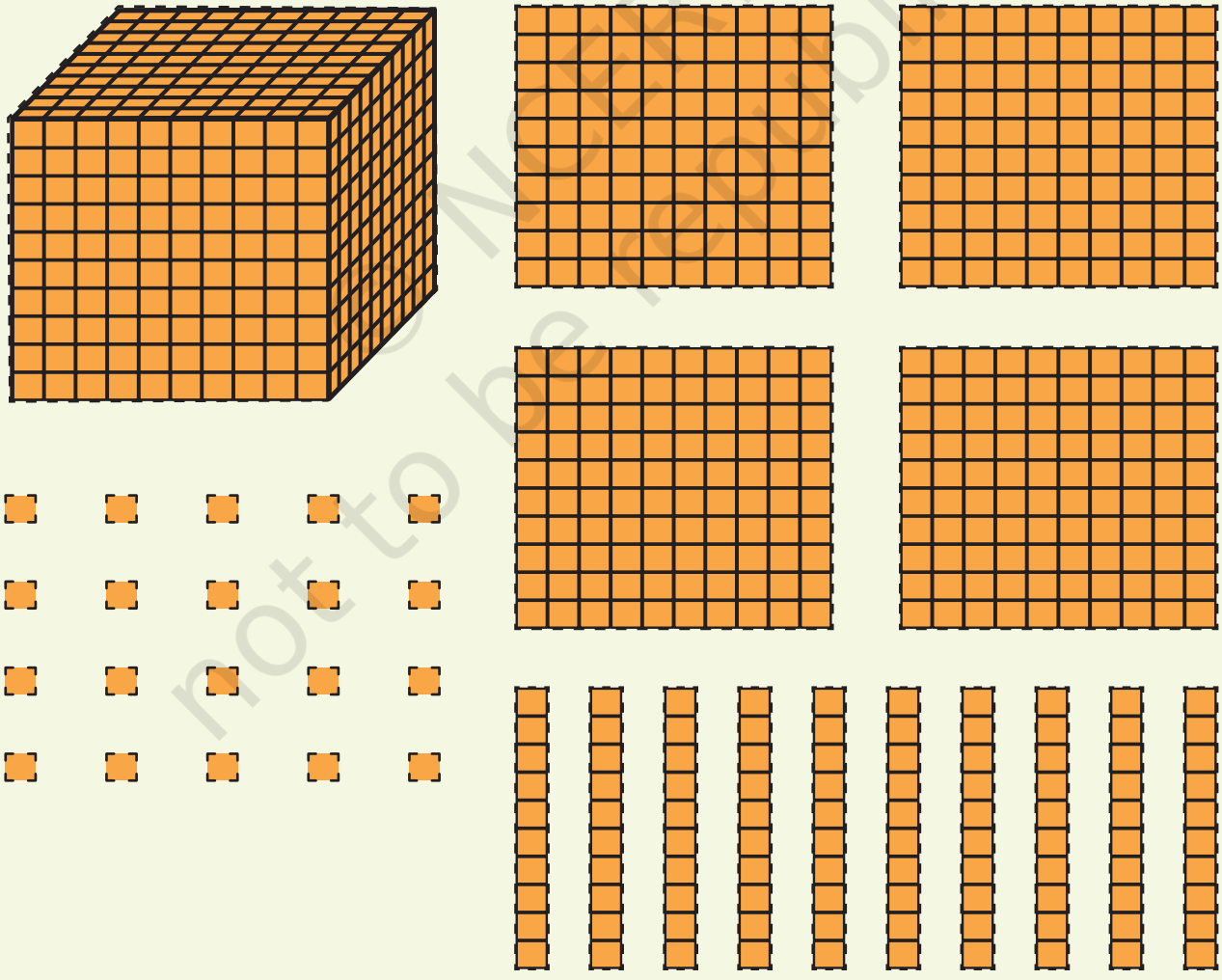
2D Shapes

Note: Use the shapes given below in Chapter 1



Dienes Blocks



Note: Make more Dienes blocks if needed

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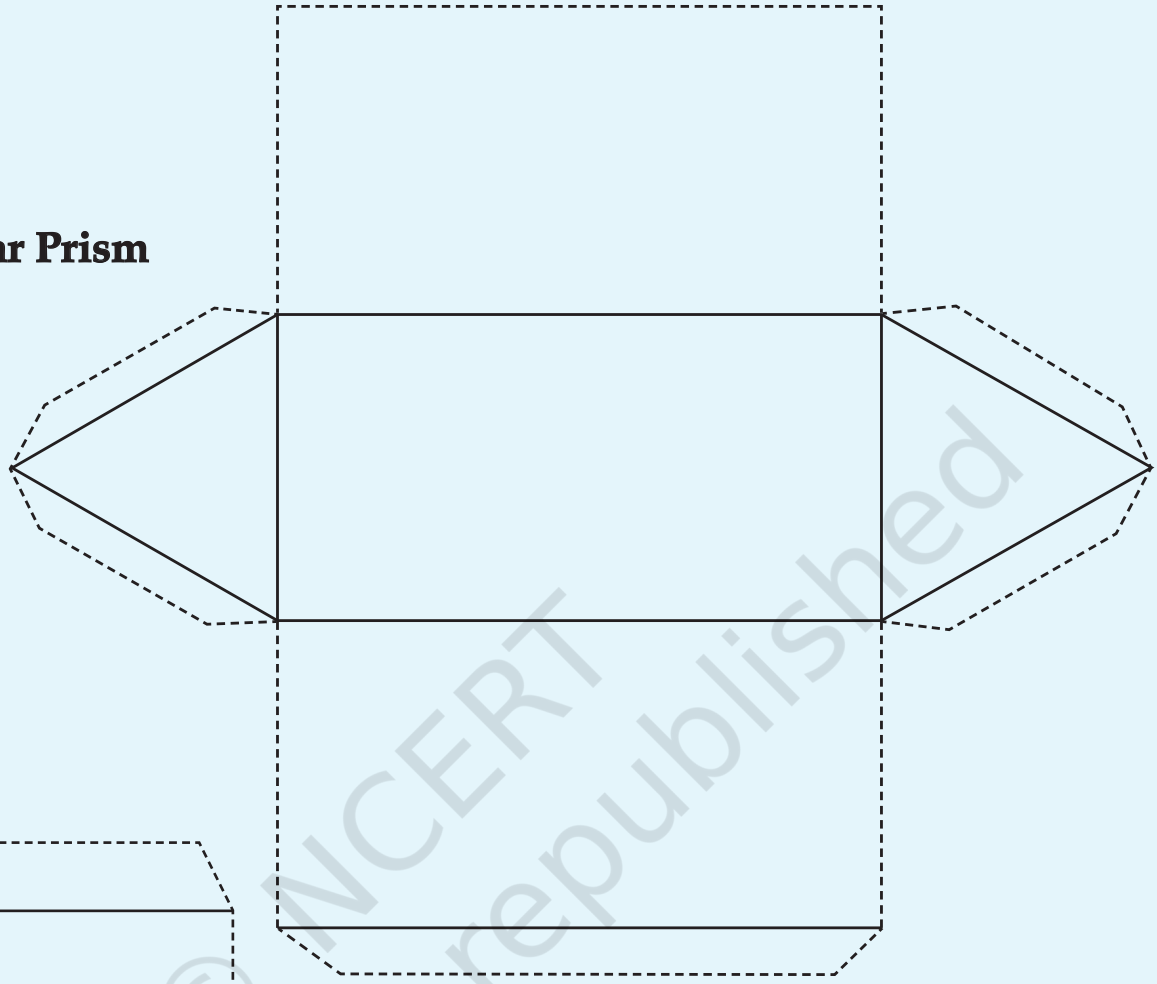
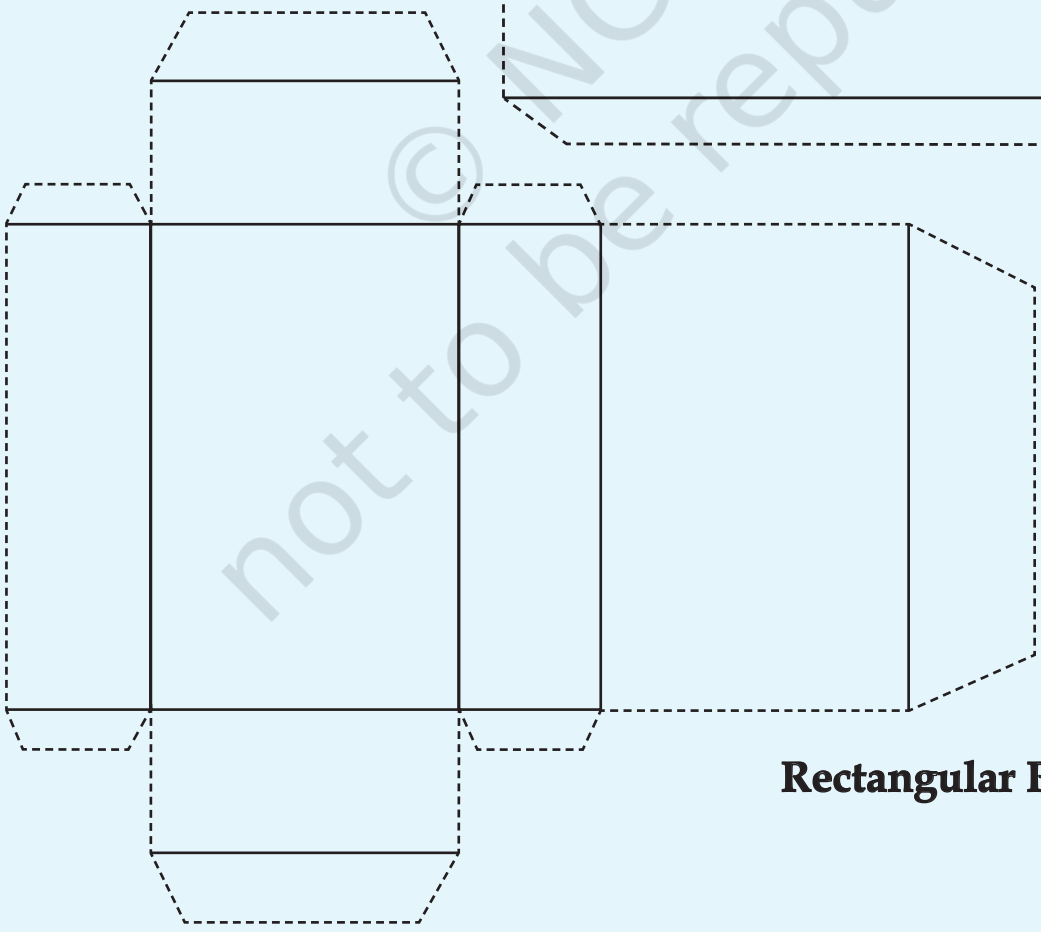
Nets of a Triangular Prism and Rectangular Prism/Cuboid

Note: Cut along the dotted lines and fold along the dark lines.

Triangular Prism





Rectangular Prism / Cuboid

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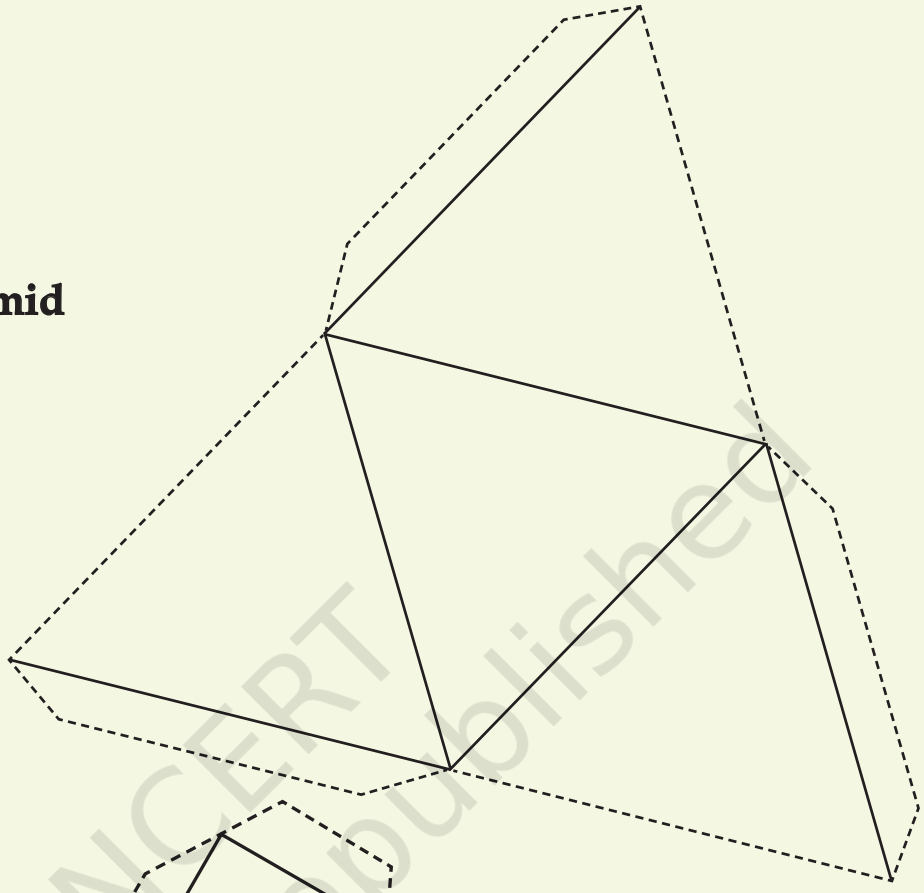
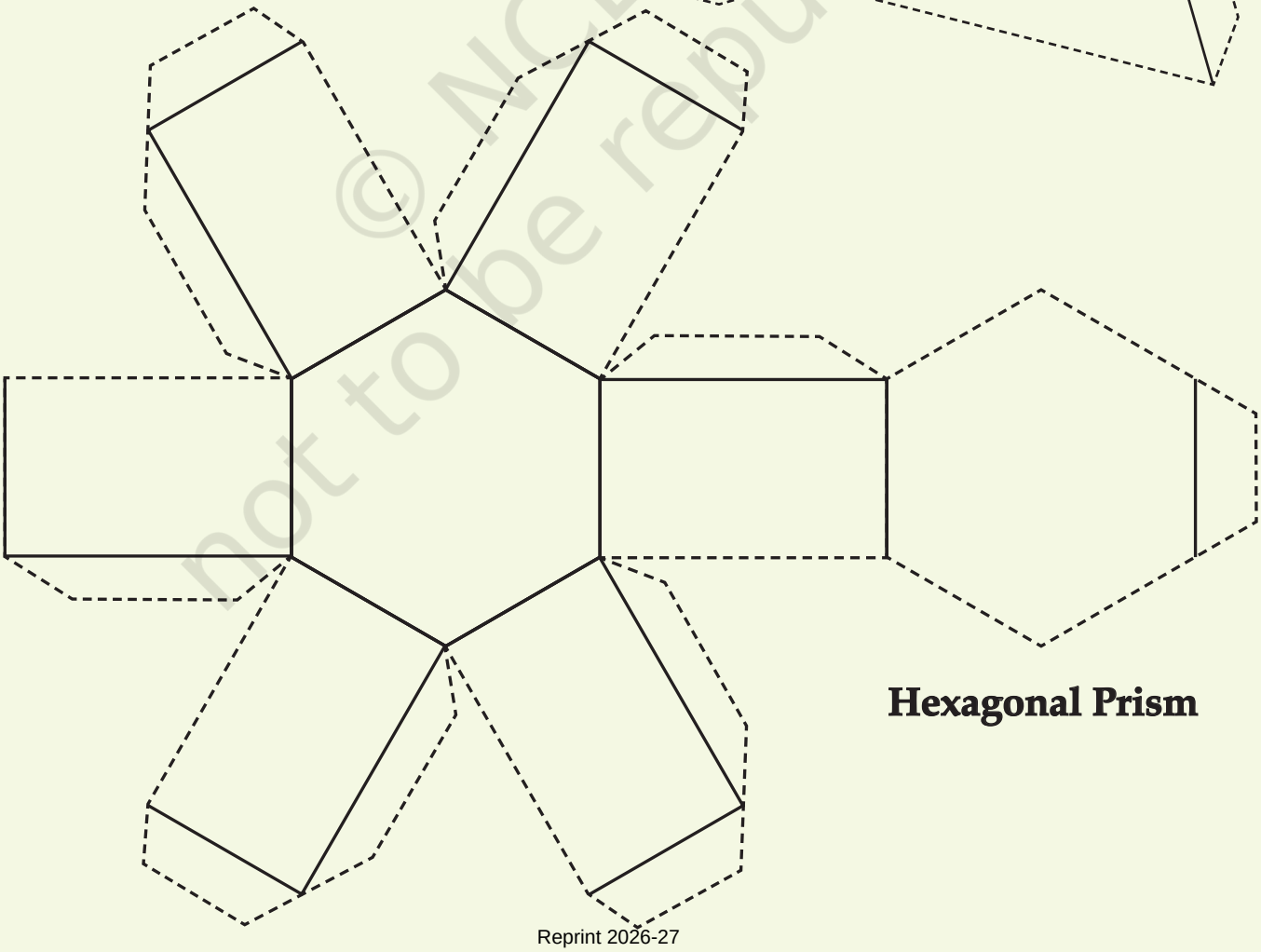
Nets of a Triangular Pyramid and Hexagonal Prism

Note: Cut along the dotted lines and fold along the dark lines.

Triangular Pyramid





Hexagonal Prism

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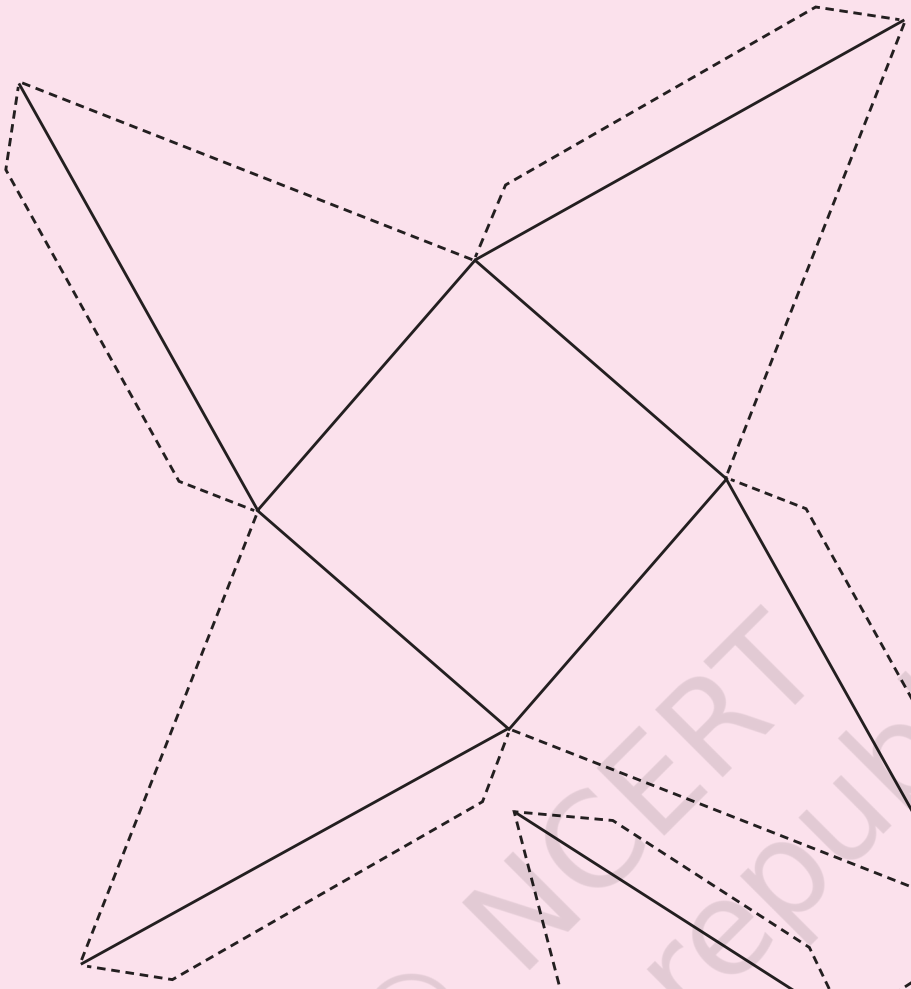
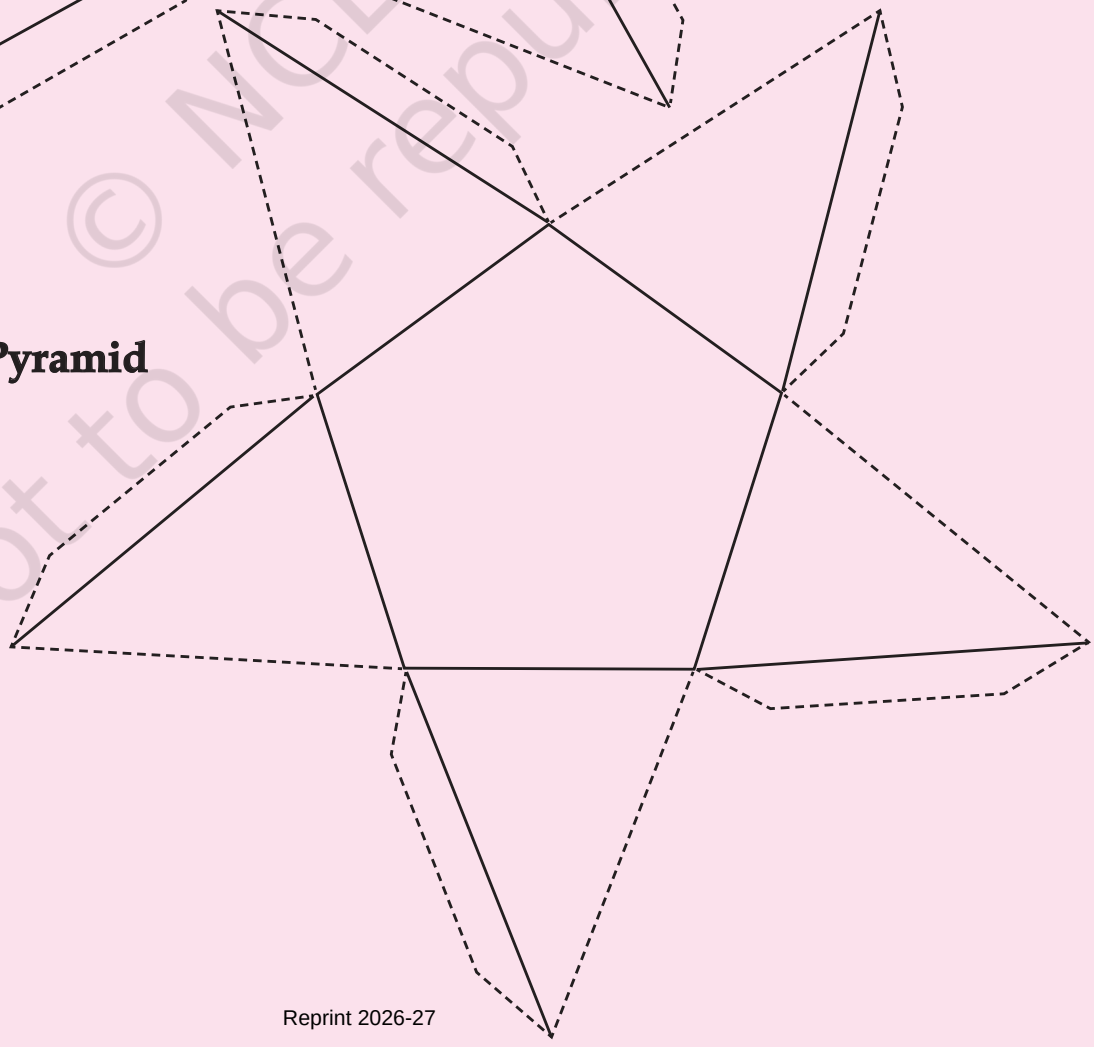
Nets of a Square Pyramid and Pentagonal Pyramid

Note: Cut along the dotted lines and fold along the dark lines.



Square Pyramid



Pentagonal Pyramid

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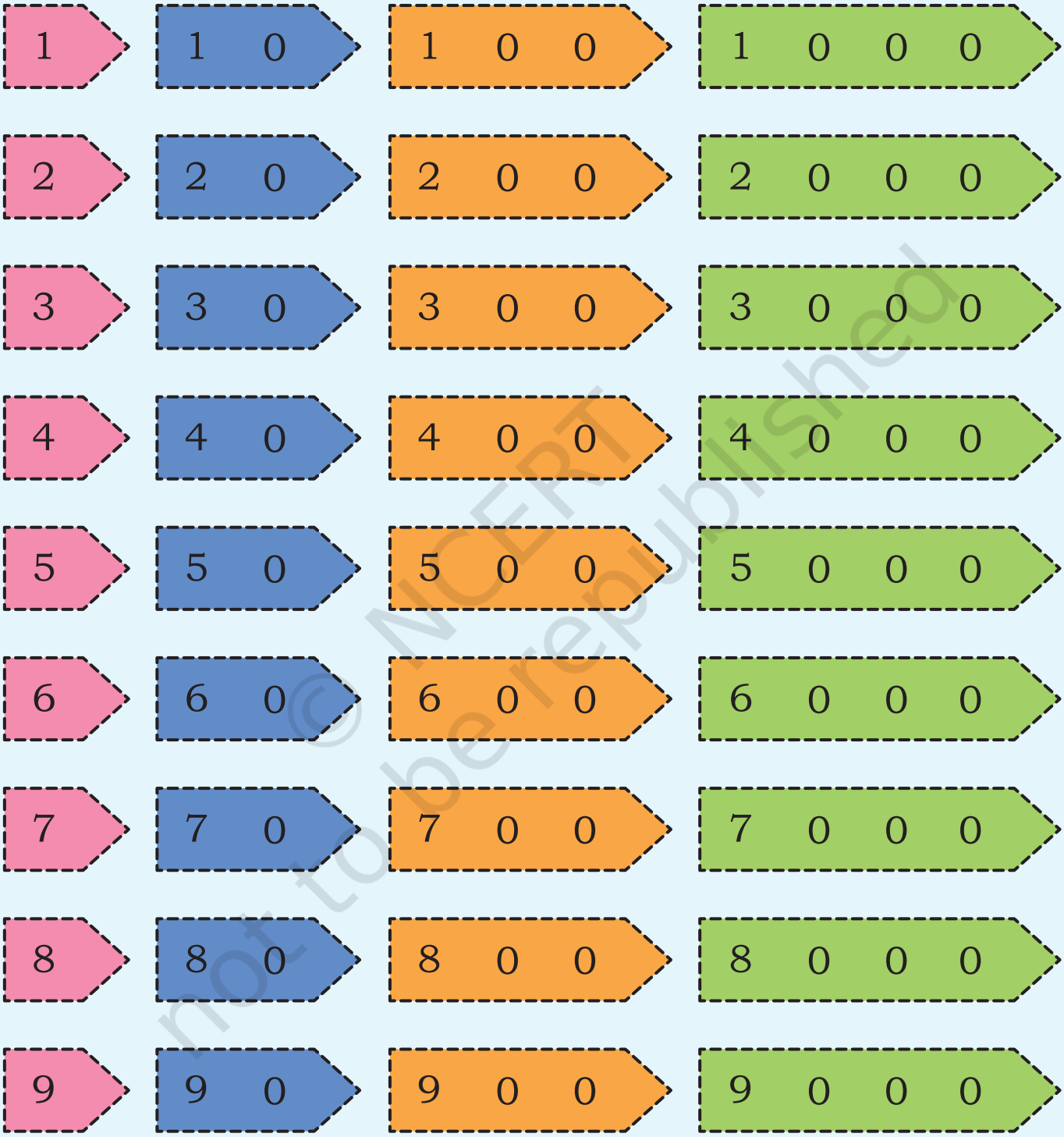
Arrow Cards



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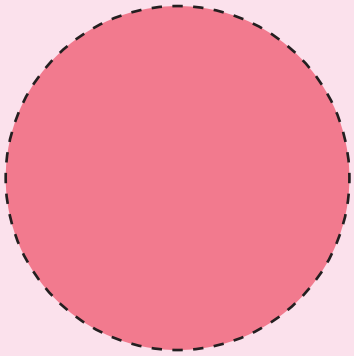
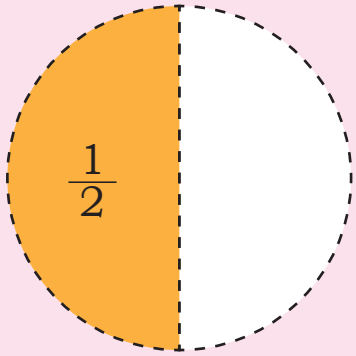
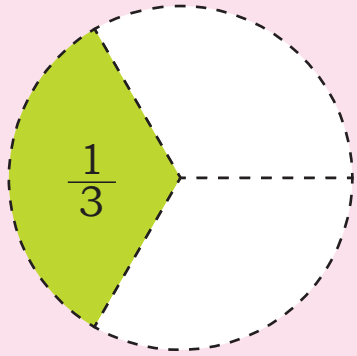
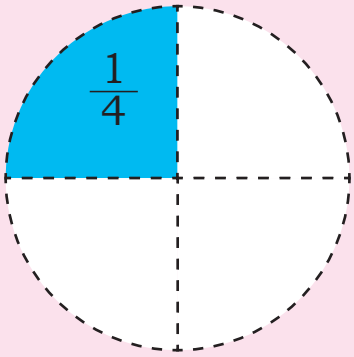
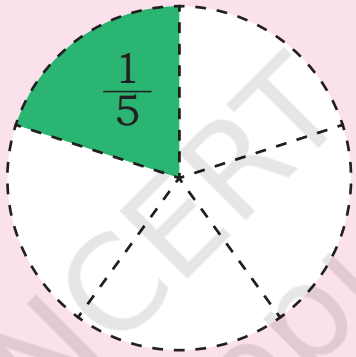
Fraction Kit

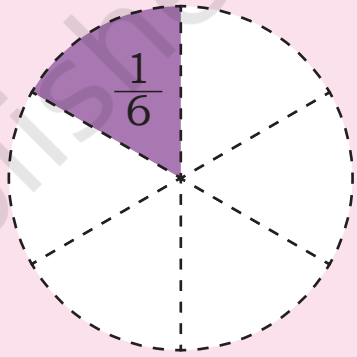


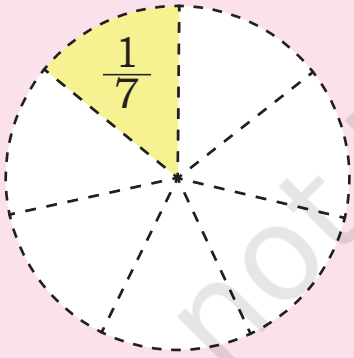


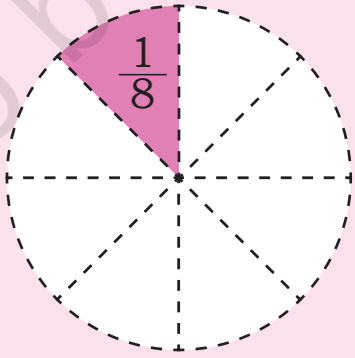


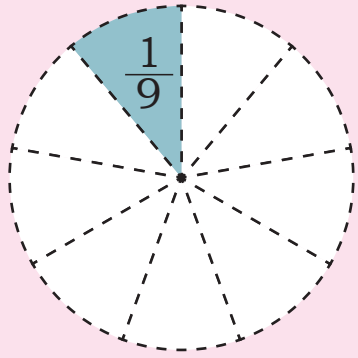












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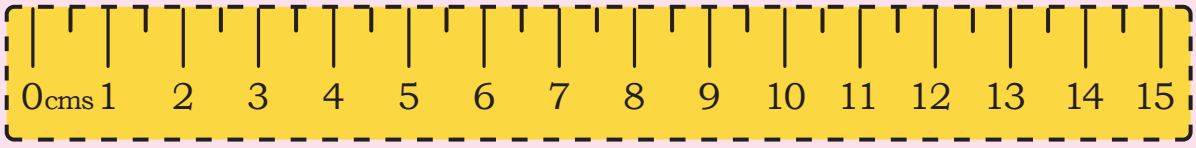
Cm Scale



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Number Tokens

1000 1000 1000 1000 1000

1000 1000 1000 1000

100 100 100 100 100

100 100 100 100 100

100 100 100 100 100

100 100 100 100 100

10 10 10 10 10 10 10

10 10 10 10 10 10 10

10 10 10 10 10 10

1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1

1 1 1 1

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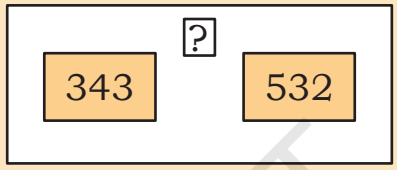
Note for Teachers

Box diagrams help students decode word problems as well as find strategies to solve them. The following examples are typical of all word problems in addition and subtraction. The operation that needs to be carried out can be decided depending on which boxes are filled in any problem. The three types of problems are combine, compare and change. Each problem can be represented using a slightly different box diagram so that one can capture the problem fully.

Example 1: Combine: Involves two different sets/collections. For example, there are 343 children in the Preparatory Stage and 532 in the Middle Stage in a school. How many total children are there in these two stages?

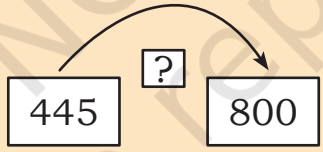
343 + 532 = ?



Example 2: Change: Involves change in an existing set/quantity. For example, I have 445 in my piggy bank. After three months, I ended up with 800 in the bank. How much has the amount in my bank increased in three months?

445 + ? = 800

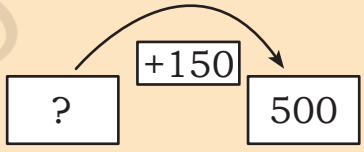
800 – 445 = ?



Example 3: Change: There are some potatoes in Sohan's shop. He bought 150 kg more and now has 500 kg of fresh and old potatoes. How many kg of potatoes did he have initially?

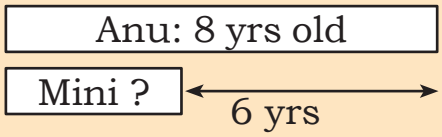
? + 150 = 500

500 – 150 = ?



Example 4: Compare: Involves comparing two quantities. For example, Anu is 6 years older than her sister Mini. Anu is 8 years old now. How old is Mini?

8 = ? + 6



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