SNBP International & Senior Secondary School Chikhali, Pune.

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Academic session 2024-25

Grade - IV

NOTES - PT 3 Subject: MATHS

Prepared by: Priyanka Gupta LESSON – 11. Lines and Shapes

#### Pre activity – Lets Begin from T.B. (Pg. No. 168)

### ULet's Begin 🎉

Today I went to the market by bus with my parents. I noticed a lot of different shapes in it.





Do you mean shapes inside the bus?



### Think of a bus to answer the following questions.

- Draw the shape of the steering wheel?
- Colour the shape that looks like the seat of a bus.



Colour the shape that looks like a holding bar in a bus.



The shape of the windows in a bus is <u>rectangular</u>. (rectangular/circular)

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### UConcrete Stage

- Use a ruler to draw the following.
- Horizontal Line







Draw a line segment and a ray. Also, name them.

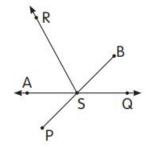
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### UPICTORIAI STAYE

Join the points with a curved line and name them.



- 2 Look at the figure and answer the following.
- Name any 3 rays.RS, SA, SQ
- Name a line.
  AQ
- Name a line segment. PB



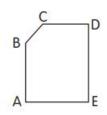
## DAbstract Stage

1 Write the differences between a line segment and a ray.

Answer: A line segment is a part of a line having two endpoints and its length is measurable. Whereas a ray has one fixed point (starting point), but it has no endpoint. So, its length cannot be measurable.

- Write the similarities between a line segment and a ray.
  Answer: Ray and line segment are similar in a way that they both have an endpoint.
- 3 The given figure has \_\_\_\_\_ 5 \_\_\_ line segments.
- Look at the figure used in the above question, and write the name of the longest and the shortest line segments.

Answer: longest = DE shortest = BC



# √Concrete Stage

Create parallel and perpendicular lines using ice cream sticks. Use a ruler to cross-check the distance between parallel lines, and use a protractor to cross-check the angle at which the perpendicular lines

Maths Fact:

- We use the symbol '\(\percap^2\) to represent perpendicular lines.
- We use the symbol '||' to represent parallel lines.

cross-check the angle at which the perpendicular lines intersect.

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1 Identify the types of lines from the given picture.





Perpendicular





**Parallel** 

2 Which geometrical term would you use to describe the electrical power cables shown here? Explain.

Answer: Cylindrical





- 1 Look at the figure and answer the following.
- Name a pair of parallel lines.

EF, GH

Name a pair of perpendicular lines.

AB, CD



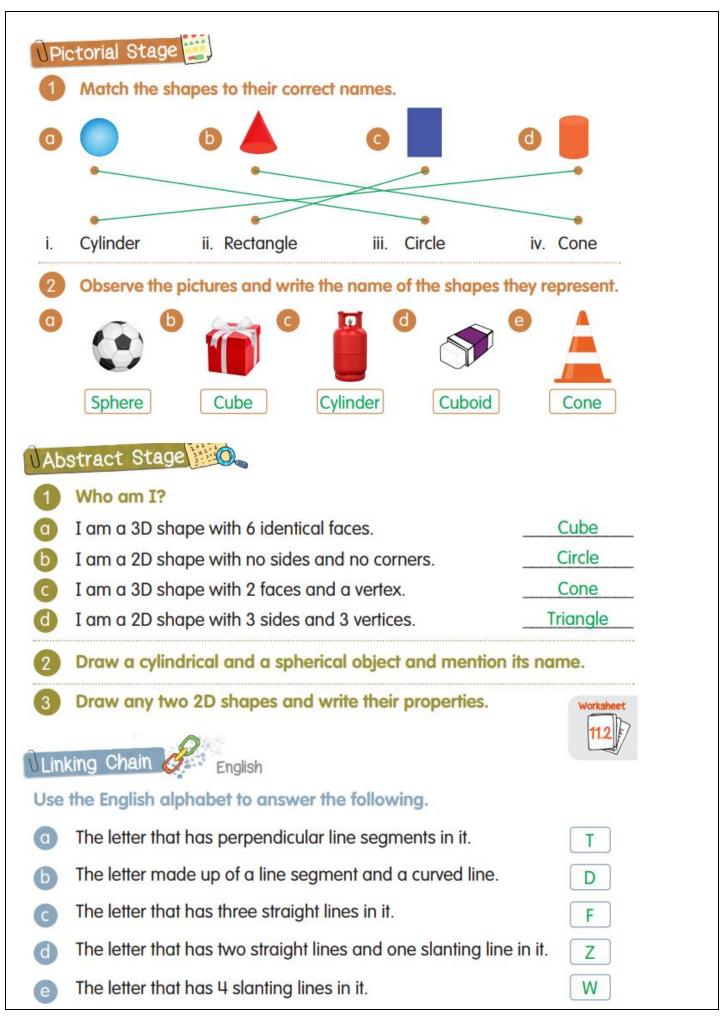


- CD → i. is perpendicular to IJ
- 6 GH ← ii. is perpendicular to EF
- AB iii. is parallel to EF

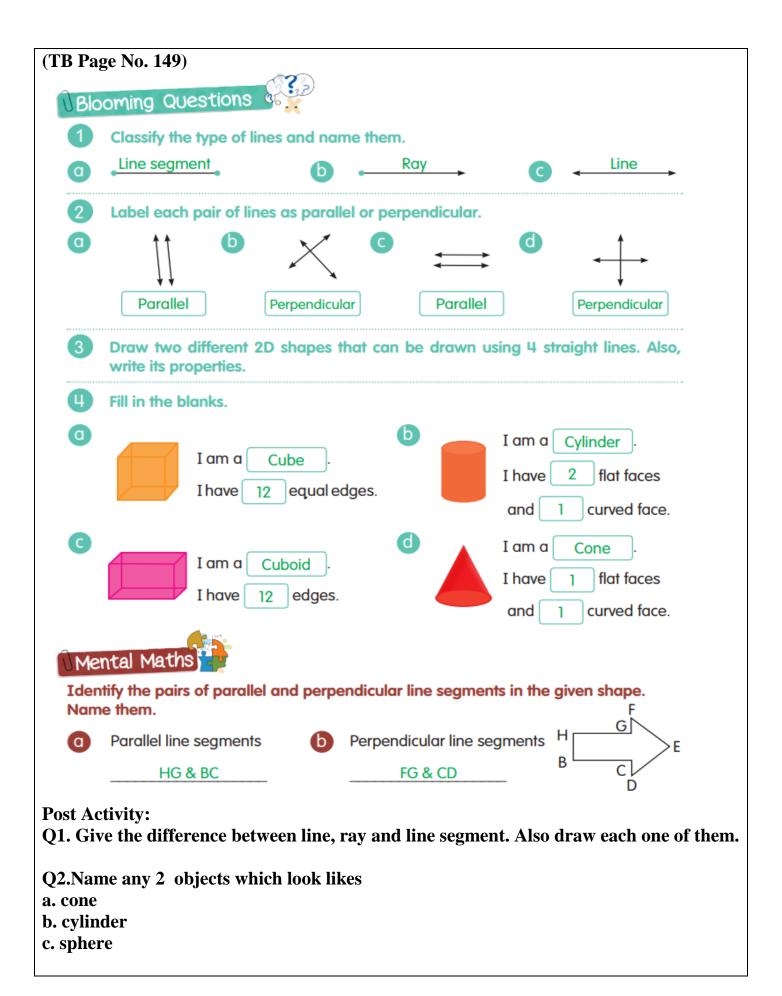
## Vconcrete Stage

- Use toothpicks and design the following 2D shapes. Write the number of toothpicks you used to make each of the shapes.
- 2 Use clay to model the following shapes. Tick (✓) the ones that you were able to model using clay.
- Cube Cuboid Cone Cone Cylinder

Answer: Answer may vary.



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Subject Teacher

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