

1 Many objects - Different shapes

Today, the teacher is showing objects of various shapes to children in class 4.



Categorize these objects based on their shapes. Also, extend this list based on objects you see around you.

Ball -like	Brick-like	Dice-like	Joker hat-like	Drum-like

Think and Discuss

1. Do we roll them or slide them?

- Does a ball roll? Do all ball-shaped objects roll?
- In how many ways can we move a suitcase from one place to another? Can we roll it for moving it from one place to another?
- Can objects with a drum-like shape be rolled? Can they also slide?
- Why can some objects only be rolled and why can some only slide? Why can some objects both roll and slide?

Activity

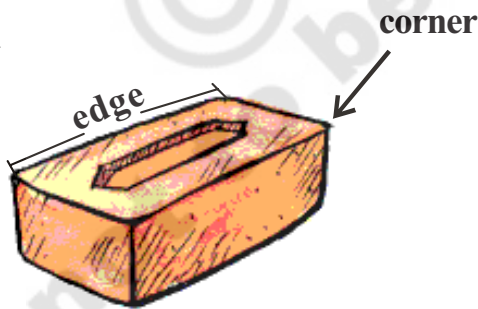
Nithya and her 5 friends are playing a game. They blindfolded Pallavi and asked her to clap as long as she wished while the others ran around a table. The moment Pallavi stopped clapping everybody would stop wherever they are. Those who are not at the corners of the table would be out.



Who is standing on the corners of the table? Who is out in this game? Why?

Now let us count the edges and corners of different shaped objects.

1. How many edges do brick-shaped objects have? How many corners?



Number of edges _____

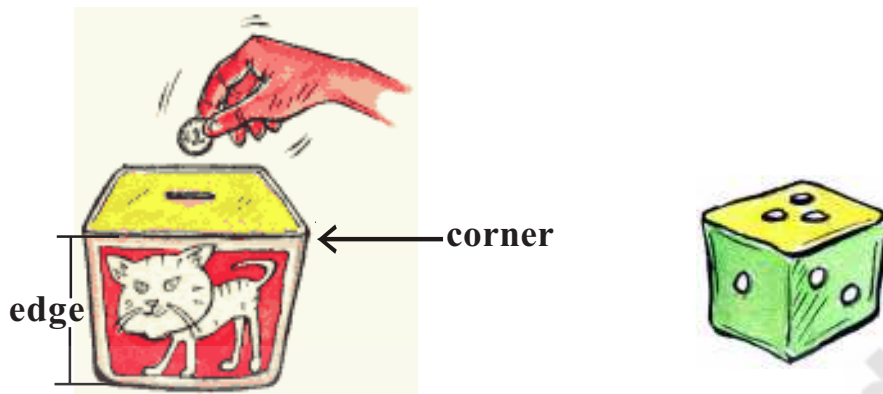
Number of edges _____

Number of corners _____

Number of corners _____

Teacher Note : Before undertaking this activity, introduce children to objects of various shapes and help to recognise and count their edges and corners.

2. How many edges do dice-shaped objects have? How many corners do they have?



Number of edges _____

Number of edges _____

Number of corners _____

Number of corners _____

3. How many edges do joker hat-shaped objects have? How many corners do they have?



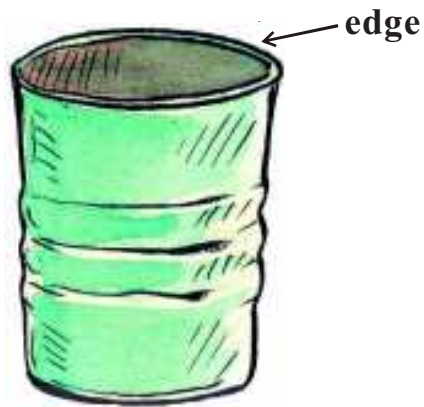
Number of edges _____

Number of edges _____

Number of corners _____

Number of corners _____

4. How many edges do drum-shaped objects have? Do they have corners?



Number of edges _____

Number of edges _____

Number of corners _____

Number of corners _____

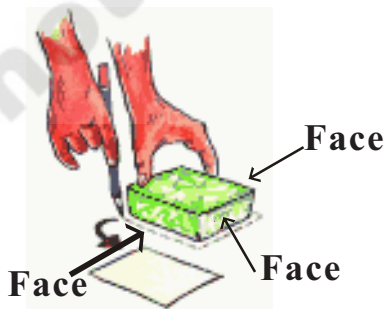
5. Do ball-shaped objects have edges and corners? _____

Think and discuss

Why do you feel that ball and drum-shaped objects roll?

Boxes of various types

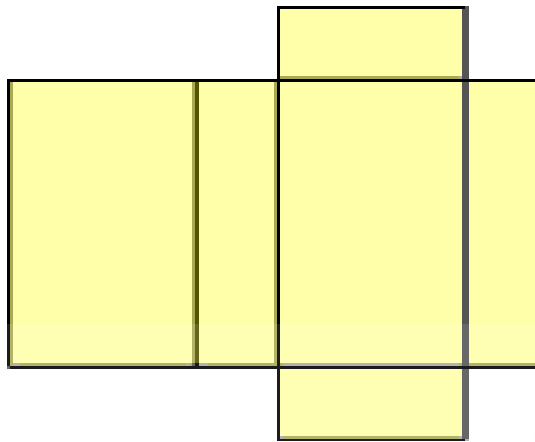
Take a soap box, put it on a paper and trace all its faces as shown here.



(a) How many faces does a soap-box have? _____

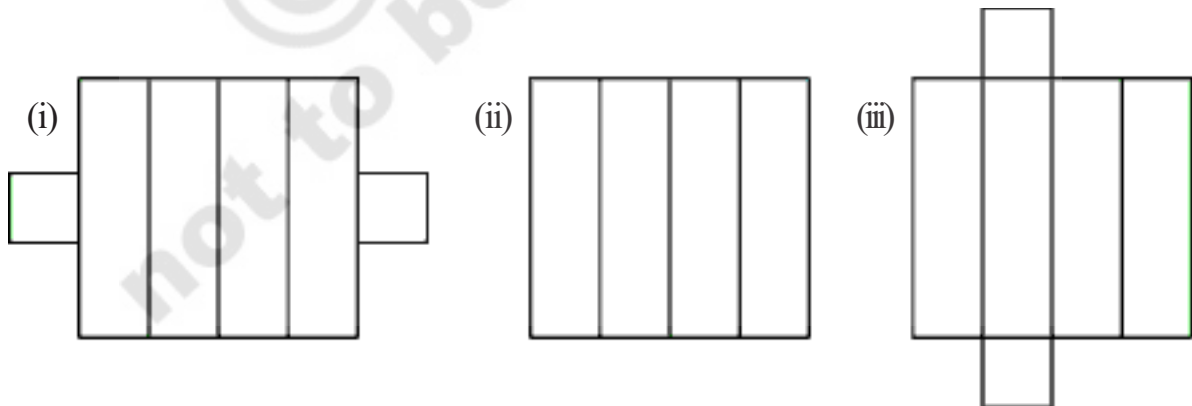
(b) Do all the faces look alike? _____

- (c) Now open the soap box carefully along its edges. Does it look like the picture given below?



This is called the net of the soapbox.

- (d) This toothpaste box will open up into which of these nets?



Do This

1. Collect various objects like tooth paste box, sweet box, shoe box etc and open them. Then draw their net forms in your notebook.

Lets play with a dice.

Take a dice and put it on a paper and trace all its faces.



- (a) How many faces does a dice have? _____
- (b) Do all the faces look alike? _____

Some open boxes

Which of the following nets can be used to make the box in the picture?

