2 Toy Joy

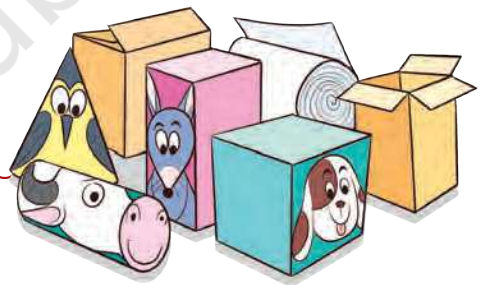


0333CH02

Some children are making animal and bird faces on old boxes, cans and paper.



Let us Do



Use old boxes (cubes and cuboids) and bottles (cylinders) to do craft work. Draw faces on them.

What did you draw on their faces?



Jaya is building a rocket with different shapes.

What shapes has she used?

How many of each?

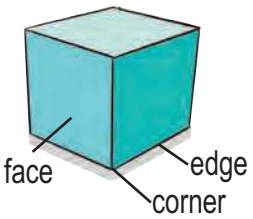
Cube: _____ Cuboid: _____

Cone: _____ Cylinder: _____

Which shape is between the red cuboid and yellow cuboid?

Which shape is on the top of the orange cylinder?

Which shape is under the pink cone?

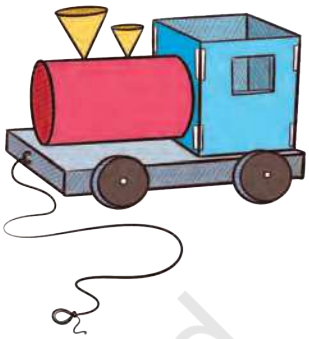


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Collect objects to make a house. Name the shapes, and talk about their faces and edges. Which are straight and which are curved? Also, describe how the shapes have been arranged. What part of the shapes can you see from a distance?

Devika went to a shop and bought a toy engine.

Here is Devika's toy engine. It has many parts. Count and fill.



_____ red cylinder(s) _____ yellow cone(s)

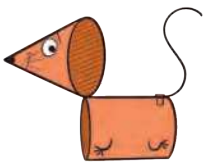
_____ grey cuboid(s) _____ blue cube(s)

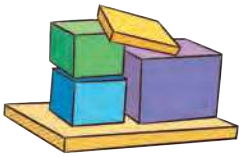


Let us Discuss

Here are some more toys from the toy shop. They are made up of different shapes.

What shapes are used in these toys?



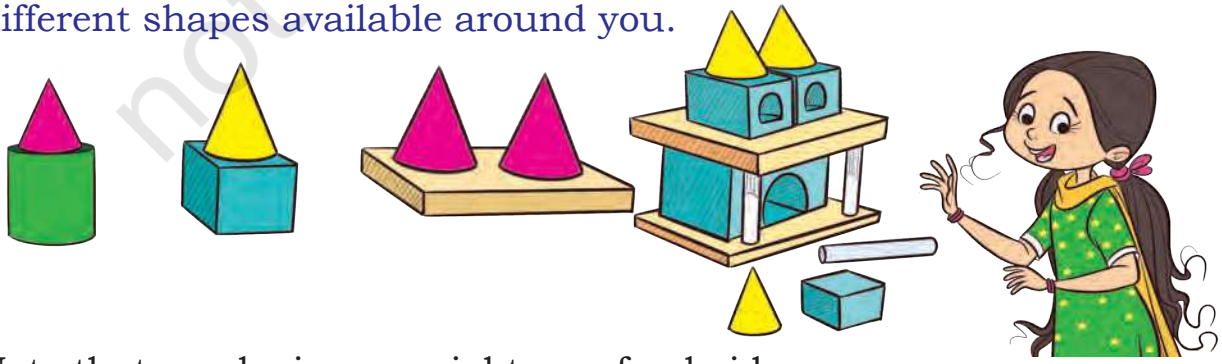



_____ _____ _____ _____

_____ _____ _____ _____

Jaya made some houses using different shapes.

Try to build such houses, towers, rockets, etc., using different shapes available around you.



Note that a cube is a special type of cuboid.

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Let us Play

Construct and Describe

Ask students to sit in groups of four or five. In each group, one student selects any three shapes and puts them together. The student, then describes the sequence of construction and the other students have to build the same without seeing the original one. Let children take turns and play the game in the group.



Example

The cylinder is of the cuboid. The cone is on the cylinder.

Let us Do

1. Find the shapes in the classroom that look like the following shapes. And fill in the table with their names.

 Cylinder	 Sphere	 Cube	 Cuboid	 Cone

(a) Name the shape that you find the most. _____

(b) Name the shape that you find the least. _____

(c) Name the objects that are made up of more than one shape. _____

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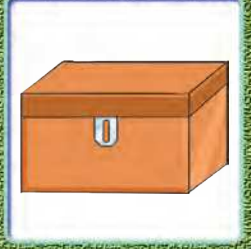
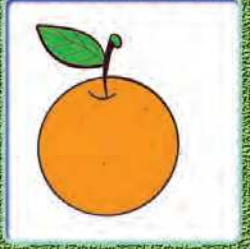


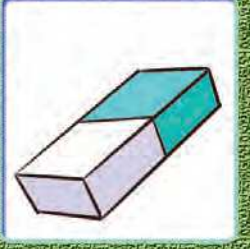






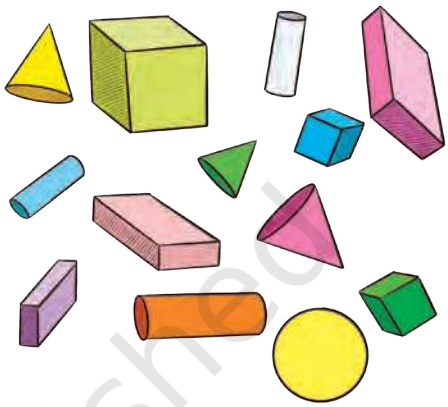





2. Look at these shapes and follow the instructions below.

- Circle ◯ the cubes.
- Put a tick ✓ against the shapes that are cones.
- Put a cross ✗ against the shapes that are cylinders.
- Draw a box ☐ around the cuboids.



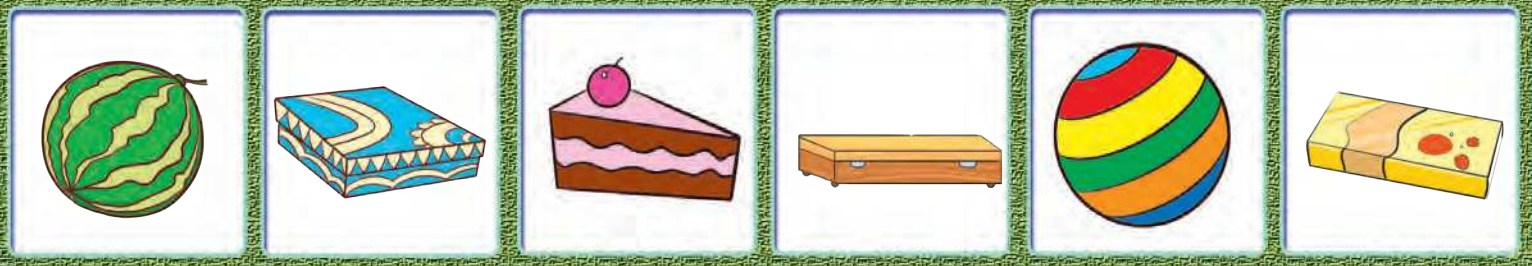
3. Name the shapes:

- with no edges. _____
- with only flat faces. _____
- with only curved faces. _____
- with both straight and curved edges. _____
- with both flat and curved faces. _____

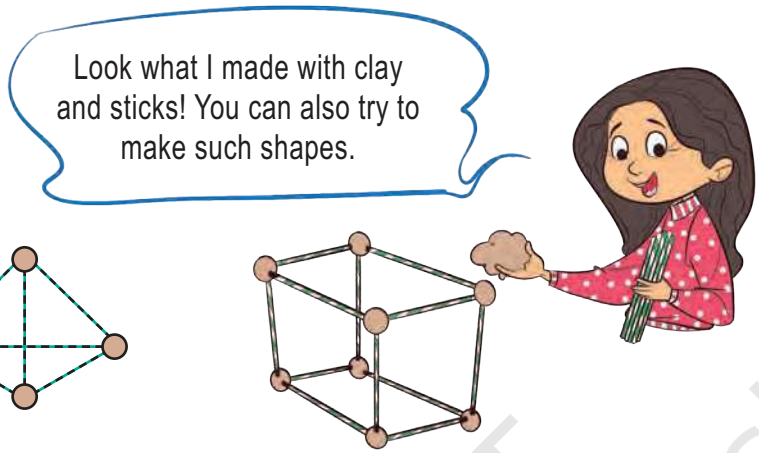


Teacher's Note: Let students look for different shapes in the classroom. Ask them to share more examples of each shape. Talk about opposite faces in cubes, cuboids and cylinders. They can turn the shapes and observe them in different orientations.

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4. Which shapes can you build?



5. Try to make these shapes using cubes.





Let us Play

There is a game along the border of these pages (12, 13). Roll the die and move the counter to the next picture associated with the number on the die (if possible without crossing the 'Finish' square) and play the game with your friends. The one who reaches the finish mark first wins the game.

 – Cylinder

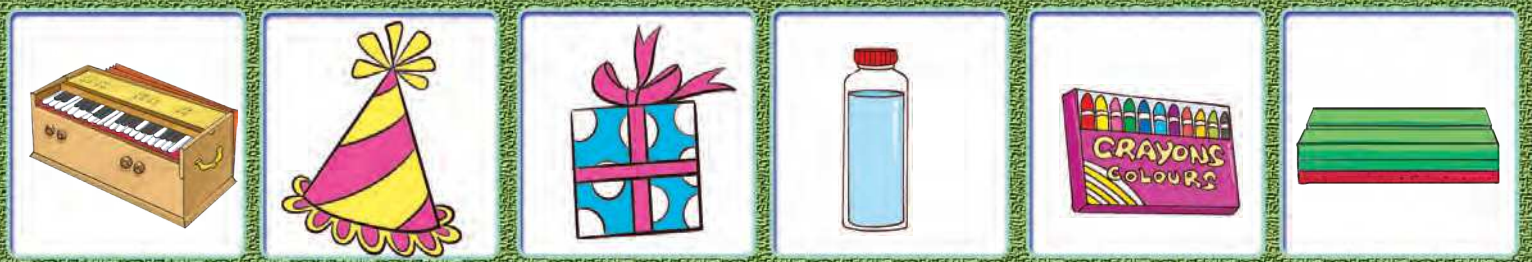
 – Sphere

 – Cone

 – Cube

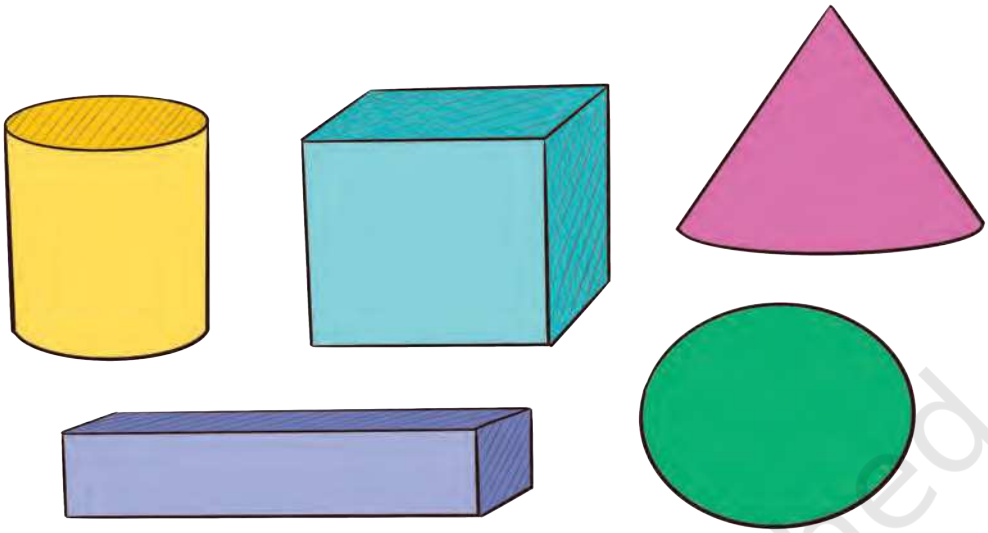
 – Cuboid

 – Move 2 steps forward if possible



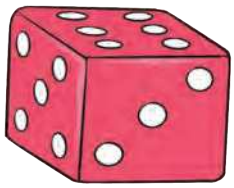
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6. In what ways are these shapes the same? In what ways are they different?

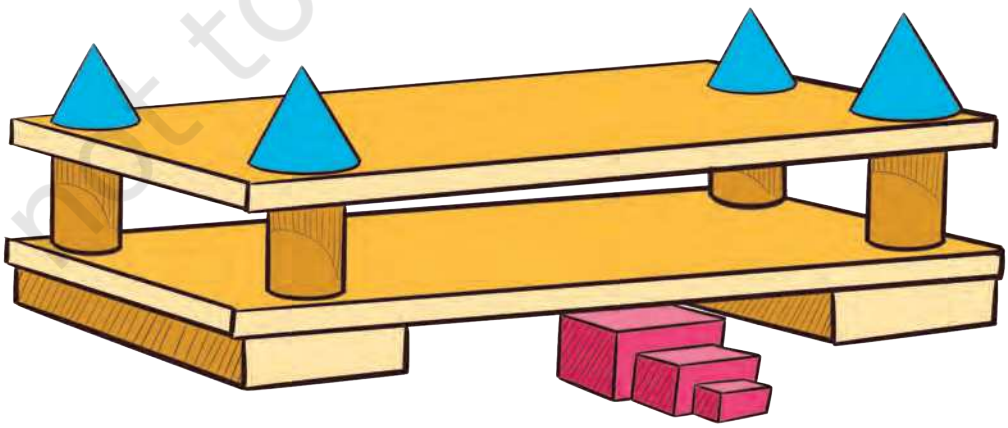


7. Look at a die. The faces have 1 to 6 dots.
What number is on:

- the face opposite number 1? _____
- the face opposite number 2? _____
- the face opposite number 3? _____
- What pattern do you notice? _____



8. In what order is this model built?

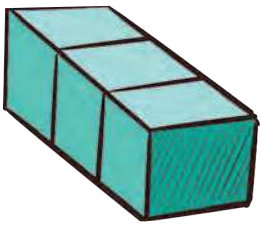


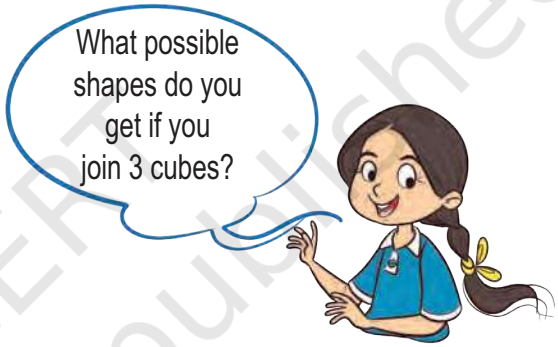
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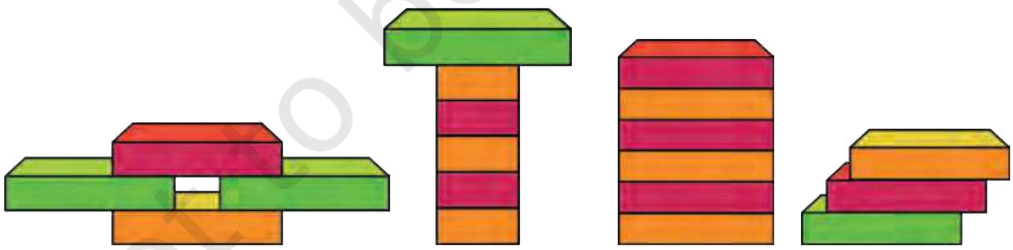


9. In how many different ways can you join 3 cubes? Try and see.





10. Name the shapes used in these models. Describe how the shapes are arranged.



(a) (b) (c) (d)

11. Use six dice to make the following shapes:

(a) a cuboid (b) a tower (c) any other shape of your choice

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