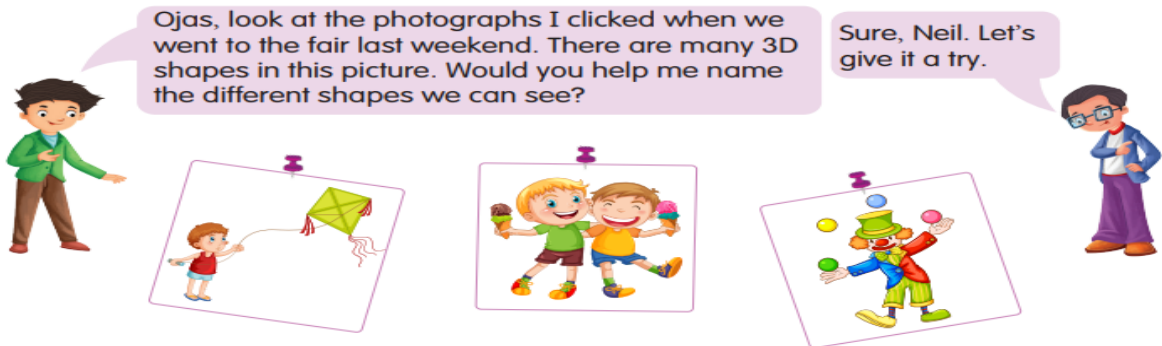




Pre- activity-Solve let's begin in the textbook.

Let's Begin

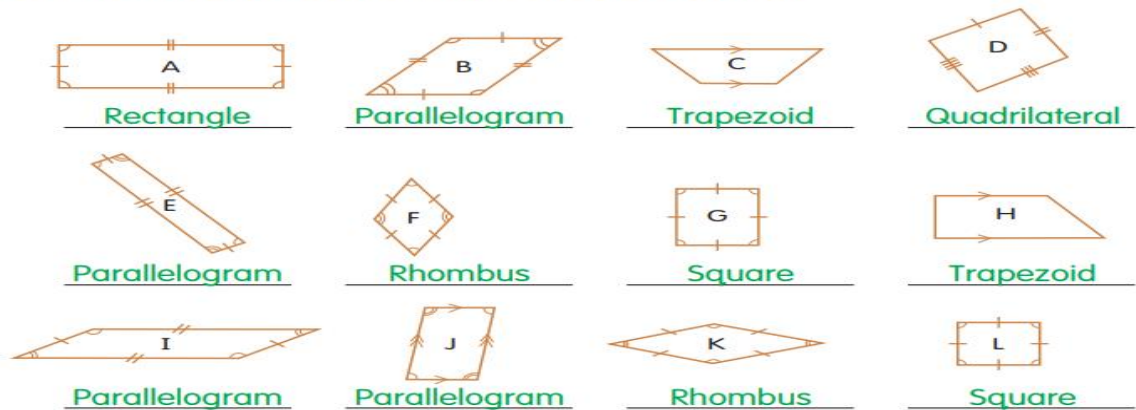


Observe the picture. Answer the following questions.

- a Name various shapes you see in the picture. Cone, cylinder, and sphere
- b Work out the number of cones and spheres in the picture.
 cones spheres
- c Do you see any flat shapes in the picture? Name them.
Kite, triangle
- d Do these 2D shapes actually exist in reality? Discuss.
No; 2D shapes can only be drawn on a paper

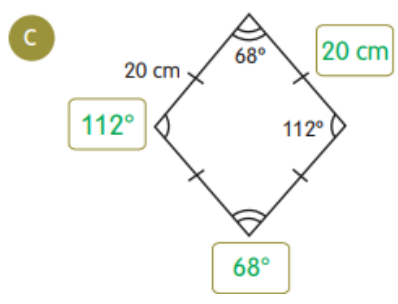
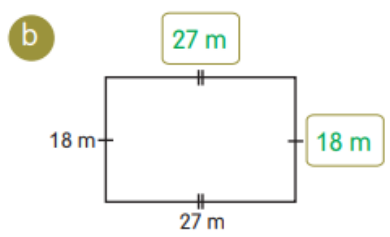
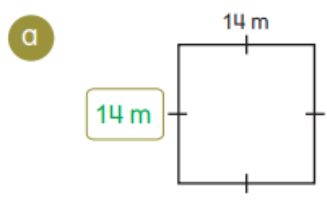
Pictorial Stage

Observe the given quadrilaterals and classify them.



Abstract Stage

1 Work out the missing values.



2 What would you say about each element of the given quadrilaterals?

	sides	angles
square	All sides are equal and opposite sides are parallel	All angles are right angles
rectangle	Opposite sides are equal and parallel	All angles are right angles
parallelogram	Opposite sides are equal and parallel	Opposite angles are equal
rhombus	All sides are equal and opposite sides are parallel	Opposite angles are equal
trapezoid	One pair of opposite sides is parallel	All angles are different

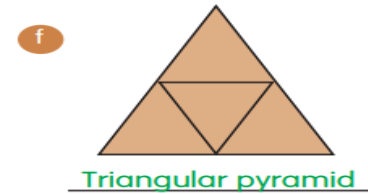
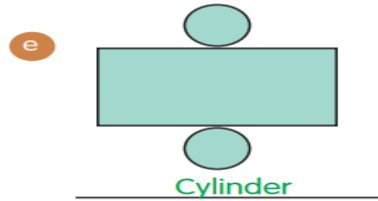
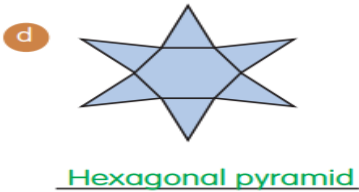
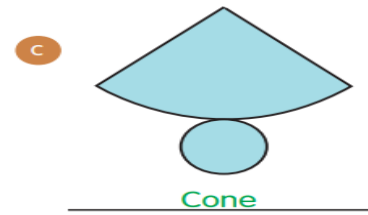
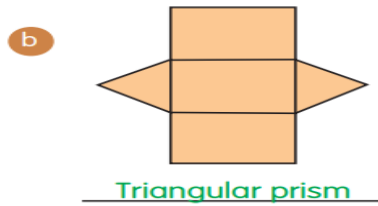
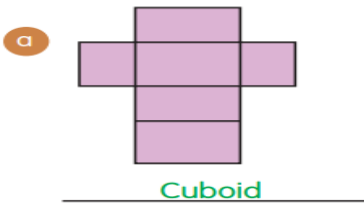
Number Talk

Are the given solid shapes prisms or pyramids?
Discuss.



Answer: Prisms; As they give us the same shape if we cut it horizontally

2 Write the names of the shapes for the following nets.



70

Abstract Stage

1 Akash is a chef and specialises in making samosas. The outer cover of the samosa he makes looks like a net of a solid shape. Which solid shape can it be? After the samosas are ready, he packs each samosa in such a box that exactly fits in the box. Draw the box and its net.

Answer: Answer may vary

2 Suppose you want to gift a scented candle to your friend on his/her birthday. What kind of box would you require to pack the candle? Draw the net of that box.

Answer: Answer may vary

3 Draw as many different nets of a cuboid as you can.

Answer: Answer may vary

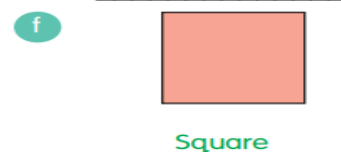
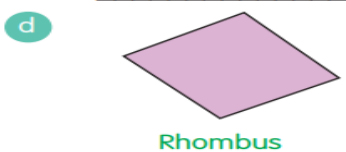
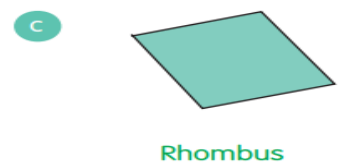
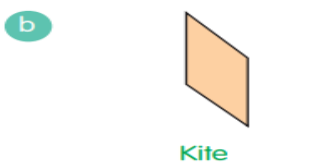
4 On a square grid, draw two different nets of the following shapes with lid and without lid.

- | | | | |
|---|------|---|----------|
| a | Cube | b | Cuboid |
| c | Cone | d | Cylinder |

Answer: Answer may vary

Blooming Questions

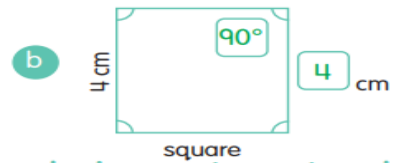
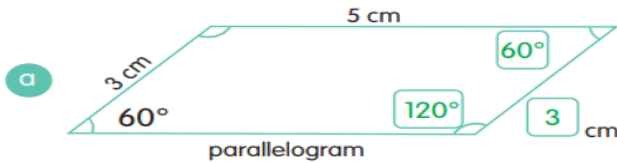
1 Name the following types of quadrilaterals.



2 Put a tick (✓) on the correct nets and a cross (x) on the wrong nets for the following

a	cuboid				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	triangular prism				
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
c	square pyramid				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

3 Find out the missing sides and angles of the given figures.



4 Tanya says the following sentences. State whether she is correct or not, and explain your reasoning.

a A square is also a rhombus.

Answer: Correct, square is also a rhombus because all sides of square are equal and opposite angles of square are also equal i.e., 90° .

b A rectangle is also a parallelogram.

Answer: Correct, rectangle is also a parallelogram because opposite sides of rectangle are equal and parallel and opposite angles of rectangle are also equal i.e., 90° .

c A parallelogram is also a trapezoid.

Answer: Incorrect

d If any prism is cut from the centre, we get two different prisms.

Answer: Correct, because if any prism is cut from the center, we get two same prisms.

e All the faces of a pyramid are triangles.

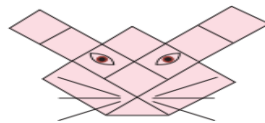
Answer: Not correct, because it is not necessary that all the faces of a pyramid are triangles e.g., square prism have one square face.

5 Work out the missing angle in the following figure.



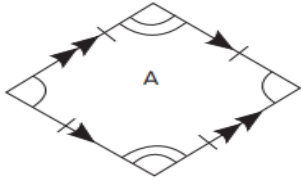
Answer: $360^\circ - (110^\circ + 80^\circ + 60^\circ) = 360^\circ - 250^\circ = 110^\circ$

6 Work out the number of squares in the given picture.

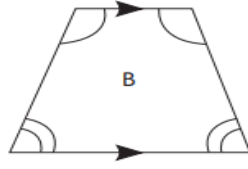


Answer: 9

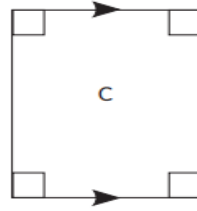
7 Identify the type of quadrilaterals given below.



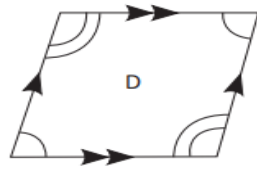
Rhombus



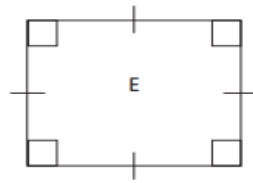
Trapezoid



Rectangle



Parallelogram



Square

Post –Activity-Solve mental math in the NB.

S.Teacher

H.O.D

Co-Ordinator

Principal