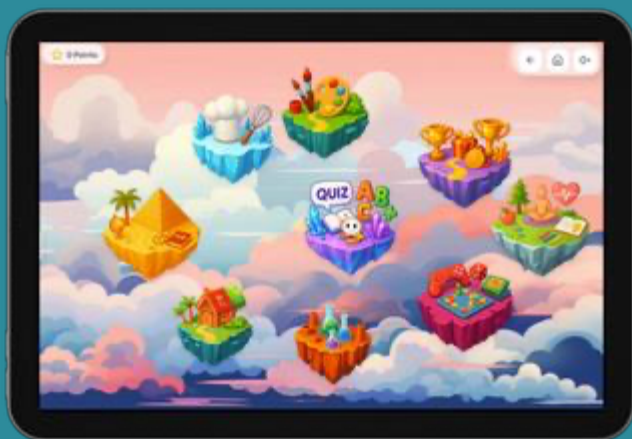




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Features of 3D Objects - Foundation

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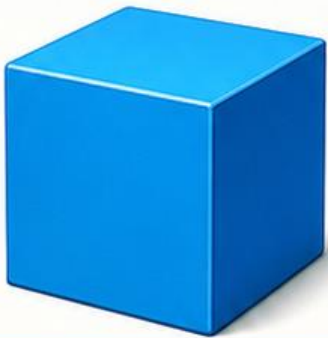


3D OBJECT DETECTIVES



SPHERE

1 curved surface



CUBE

6 flat square faces



CYLINDER

2 flat faces + 1 curved surface



CONE

1 flat face + 1 curved surface + 1 point



RECTANGULAR PRISM

6 flat rectangle faces

PREVIEW

MYSTERY OBJECT MATCH

Cut out the object cards. Match each card to its 3D object.

SPHERE

CUBE

CYLINDER

CONE

RECTANGULAR
PRISM

PREVIEW



ROLL, SLIDE OR STACK?

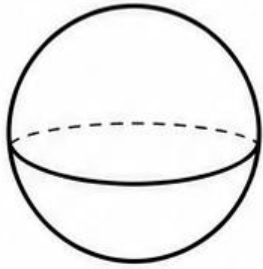
Test each object. Draw a tick or cross in each box.

OBJECT	ROLL	SLIDE	STACK
 SPHERE			
 CUBE			
 CYLINDER			
 CONE			
 RECTANGULAR PRISM			

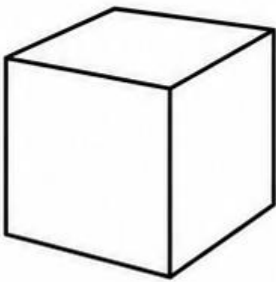
NAME THE 3D OBJECTS

Name: _____

Look at each object. Write its name on the line.

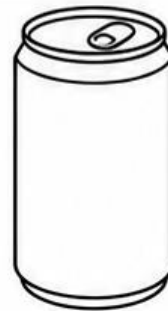


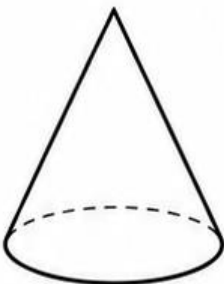


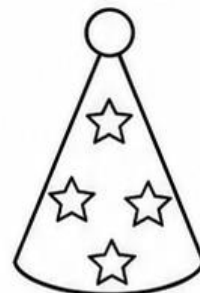










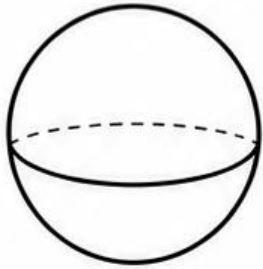


Word bank: sphere cube cylinder cone

NAME THE 3D OBJECTS

Name: _____ **ANSWERS**

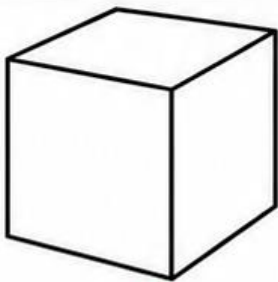
Look at each object. Write its name on the line.



sphere



sphere



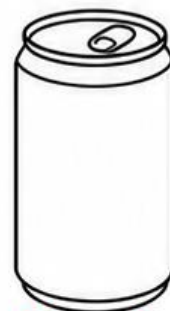
cube



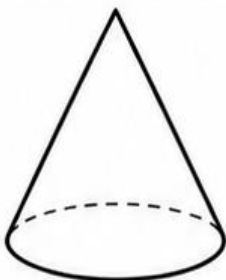
cube



cylinder



cylinder



cone



cone

Word bank: sphere cube cylinder cone

CUBE OR SPHERE SORT

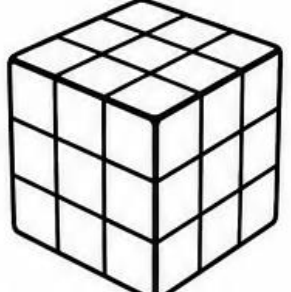
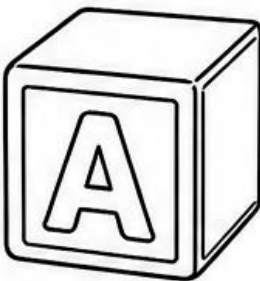
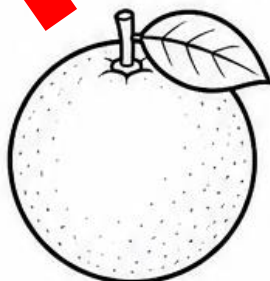
Name: _____

Cut out the pictures. Glue each one in the correct box.

CUBE

SPHERE

PREVIEW



CUBE OR SPHERE SORT

Name: _____ **ANSWERS**

Cut out the pictures. Glue each one in the correct box.

CUBE

dice

toy block

gift box

puzzle cube

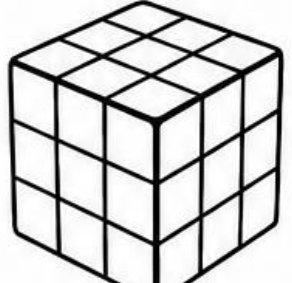
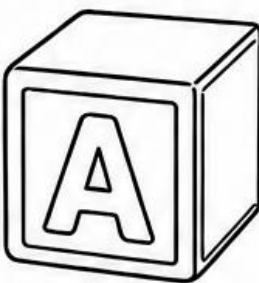
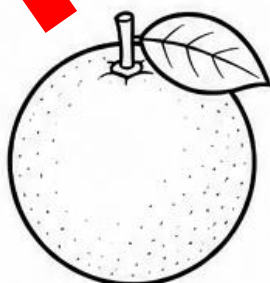
SPHERE

soccer ball

orange

baseball

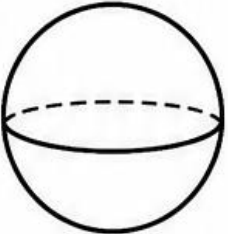
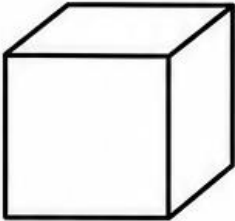
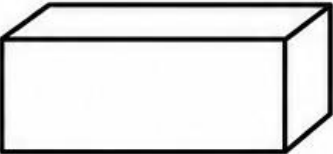
marble



ROLL, SLIDE OR STACK?

Name: _____

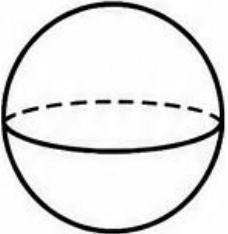
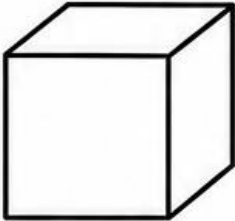
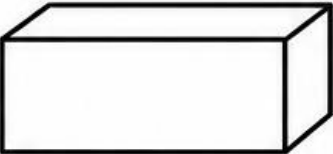
Tick every action each object can do.

OBJECT	ROLL	SLIDE	STACK
 SPHERE	☐	☐	☐
 CUBE	☐	☐	☐
 CYLINDER	☐	☐	☐
 CONE	☐	☐	☐
 RECTANGULAR PRISM	☐	☐	☐

ROLL, SLIDE OR STACK?

Name: ANSWERS

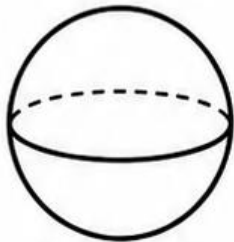
Tick every action each object can do.

OBJECT	ROLL	SLIDE	STACK
 SPHERE	☒	☐	☐
 CUBE	☐	☒	☒
 CYLINDER	☒	☒	☒
 CONE	☒	☒	☐
 RECTANGULAR PRISM	☐	☒	☒

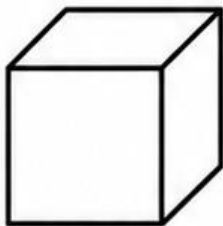
MATCH THE FEATURE

Name: _____

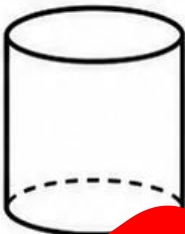
Draw a line to match each object to its feature.



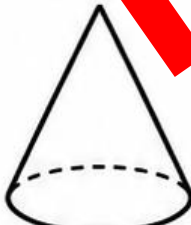
SPHERE



CUBE



CYLINDER



CONE



RECTANGULAR PRISM

6 equal
square faces

1 flat face,
1 curved surface
and 1 point

1 curved
surface

6 rectangle
faces

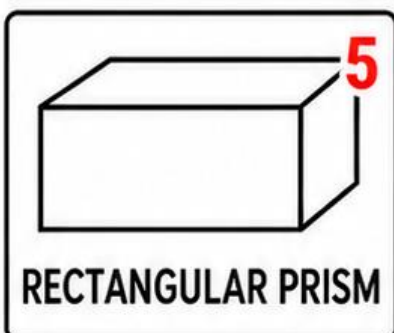
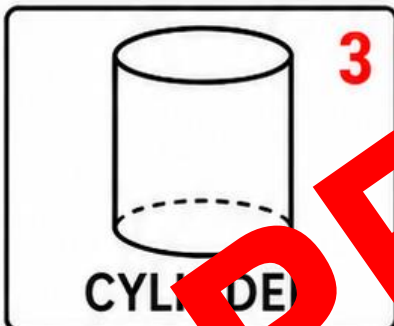
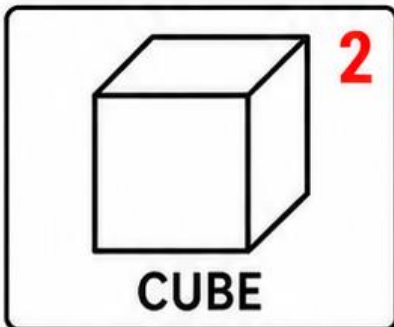
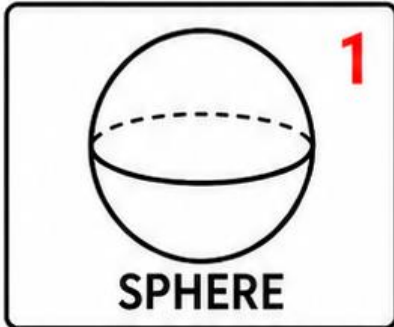
2 flat faces
and 1 curved
surface

PREVIEW

MATCH THE FEATURE

Name: **ANSWERS**

Draw a line to match each object to its feature.



6 equal square faces

2

1 flat face,
1 curved surface
and 1 point

4

1 curved surface

1

6 rectangle faces

5

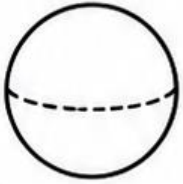
2 flat faces
and 1 curved surface

3

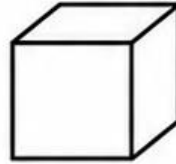
MY 3D OBJECT HUNT

Name: _____

Draw one real object for each 3D object.



SPHERE



CUBE



My object: _____



My object: _____



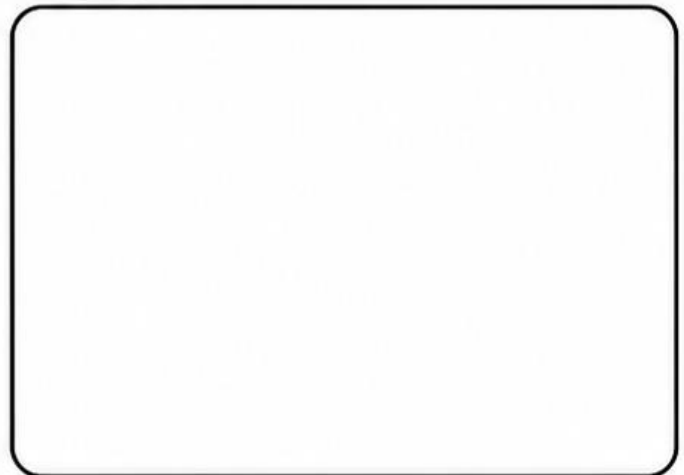
CYLINDER



CONE



My object: _____



My object: _____

3D OBJECT CHECK-UP

Toy Shop Challenge

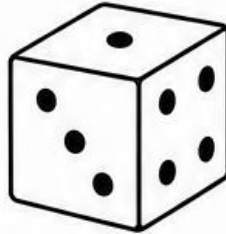
Name: _____

Show what you know about 3D objects.

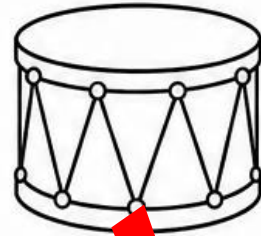
1. Circle the sphere.



ball



dice

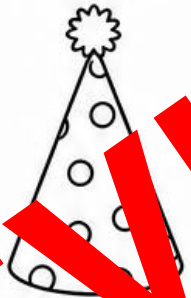


drum

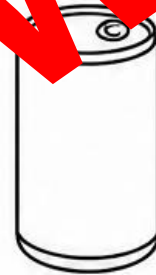
2. Circle the cube.



gift box

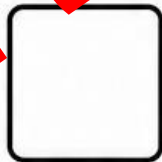


party hat

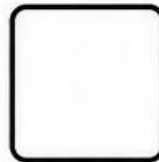


can

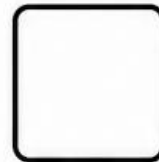
3. Tick every action a cylinder can do.



ROLL



SLIDE



STACK

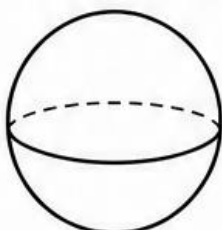
4. A cube has ____ flat faces.

☐ 4

☐ 6

☐ 8

5. Circle the object with 1 flat face, 1 curved surface and 1 point.



sphere



cone



cylinder

3D OBJECT CHECK-UP

Toy Shop Challenge

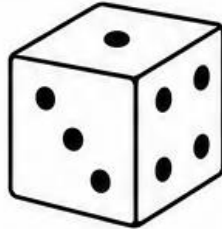
Name: ANSWERS

Show what you know about 3D objects.

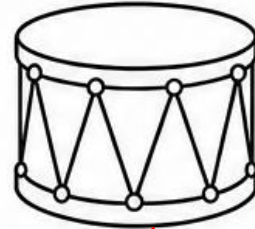
1. Circle the sphere.



ball



dice

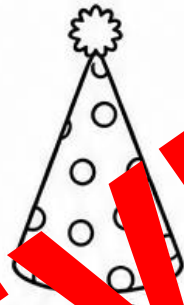


drum

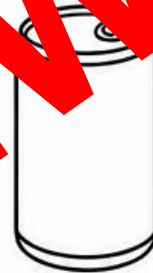
2. Circle the cube.



gift box



party hat



can

3. Tick every action a cylinder can do.



ROLL



SLIDE



STACK

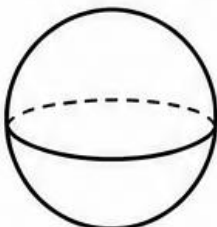
4. A cube has ____ flat faces.

☐ 4

☒ 6

☐ 8

5. Circle the object with 1 flat face, 1 curved surface and 1 point.



sphere



cone



cylinder

FEATURES OF 3D OBJECTS FOUNDATION RUBRIC

Student: _____

Date: _____

CRITERION	BEGINNING	DEVELOPING	ACHIEVING	CONFIDENT	EXCEEDING
Names 3D objects	☐ With help	☐ Names 1-2	☐ Names 3	☐ Names 4-5	☐ Names 5 and gives examples
Describes features	☐ With help	☐ Tells 1 feature	☐ Tells 2 features	☐ Tells accurate features	☐ Compares features
Explains movement	☐ With help	☐ Tells 1 action	☐ Tells 2 actions	☐ Tells roll, slide or stack	☐ Explains why
Connects real objects	☐ With help	☐ Gives 1 example	☐ Gives 2 examples	☐ Matches most examples	☐ Justifies examples

Teacher comment: _____

3D objects are solid shapes

We can pick them up and turn them around.

They have length, width and depth.

They are not flat.



Words that describe 3D objects

Face: a smooth, flat part.

Curved surface: a rounded part.

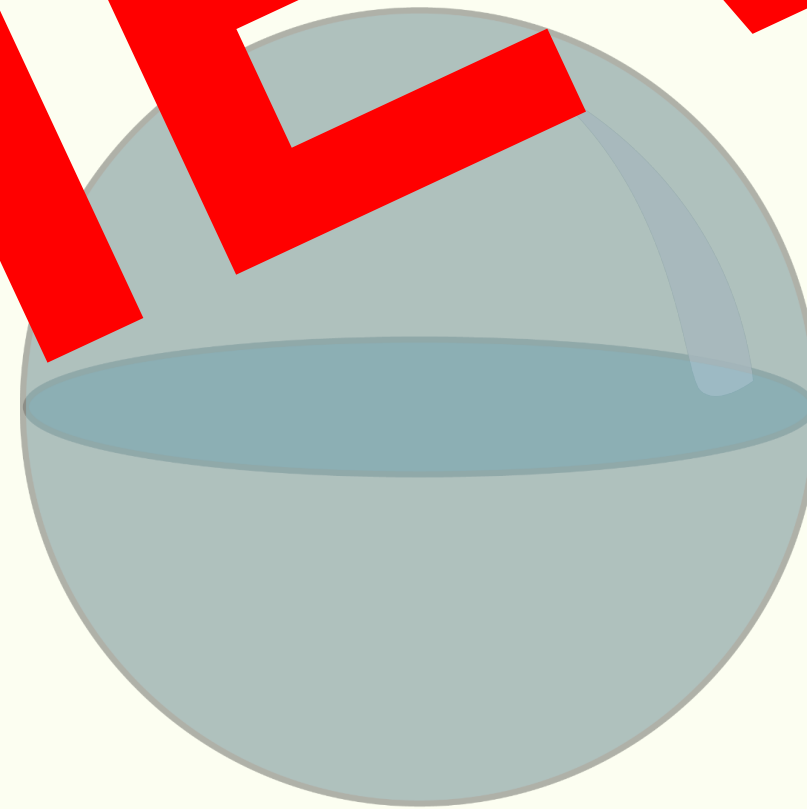
Edge: where faces meet.

Vertex: a point where edges meet.



Meet the sphere

A sphere is perfectly round.
It has one curved surface.



What can a sphere do?

It rolls in every direction.

It does not slide on a flat face.

It cannot stack.



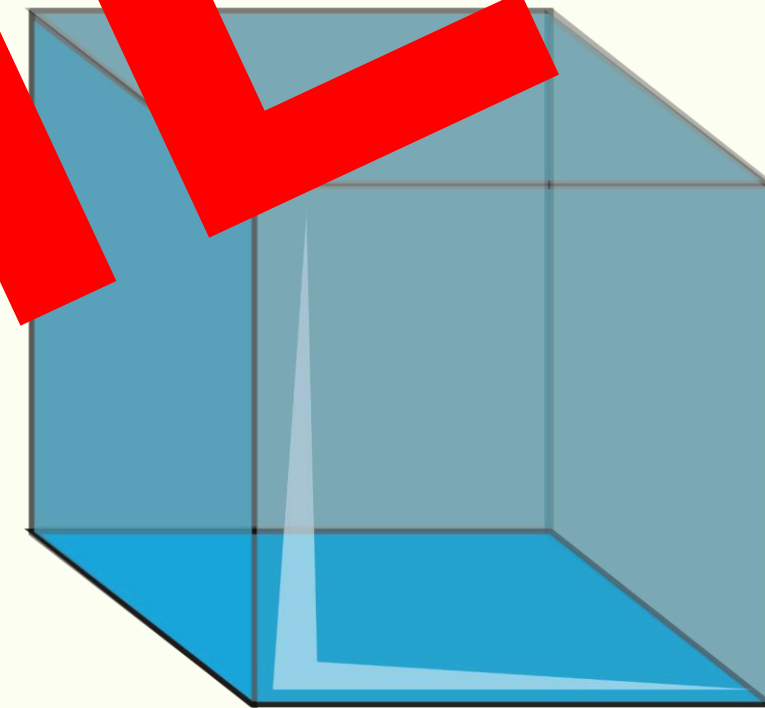
Spheres are all around us

A ball, marble, orange and globe are sphere-shaped.



Meet the cube

A cube is made from square faces



What makes a cube?

PREVIEW

equal square faces

12 edges

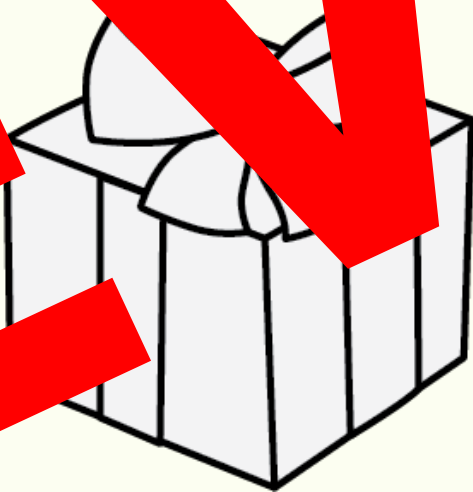
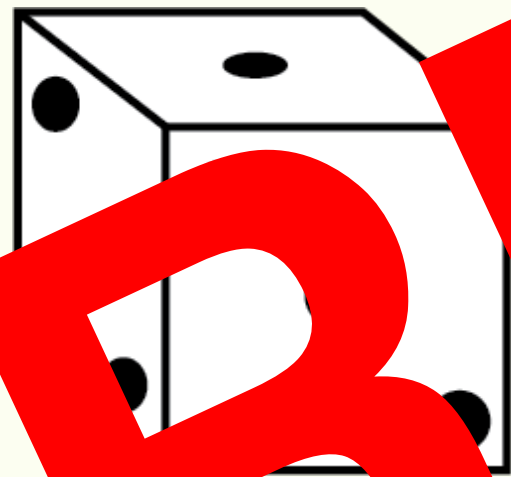
8 corners

it slides and stacks.



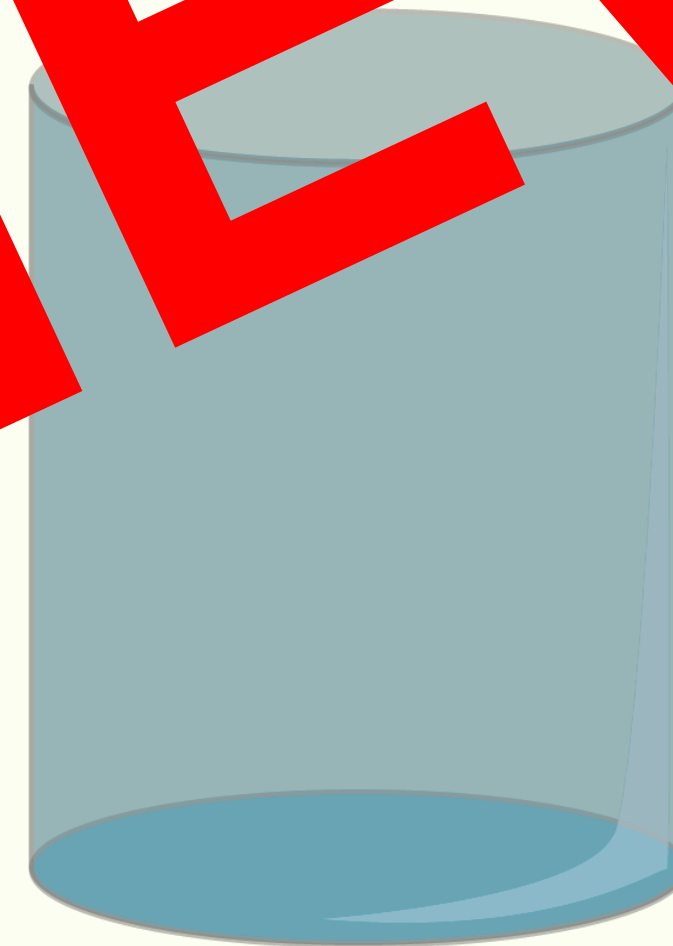
Cubes are all around us

Dice, blocks, gift boxes and puzzle cubes are cube-shaped.



Meet the cylinder

A cylinder has 2 flat circle faces and
a curved surface.



What can a cylinder do?

It rolls on its curved surface.

It slides on a flat face.

It stacks on a flat face.



Meet the cone

A cone has 1 circular face, 1 curved surface and 1 point.



What can a cone do?

It slides on its flat face.

It rolls in a circle on its curved surface.

It does not stack.



Meet the rectangular prism.

A rectangular prism has 6 flat rectangle faces and 8 corners.



Rectangular prisms are all around us

Books, cereal boxes, tissue boxes and bricks are rectangular prism-shaped.



Roll, slide or stack?

Sphere: rolls

Cube: slide and stack

Cylinder: rolls, slides and stacks

Cone: rolls and slides

Rectangular prism: slides and stacks



Mystery object clues

I have no flat faces. I roll every way. What am I?

I have four equal square faces. What am I?

I can roll, slide and stack. What am I?



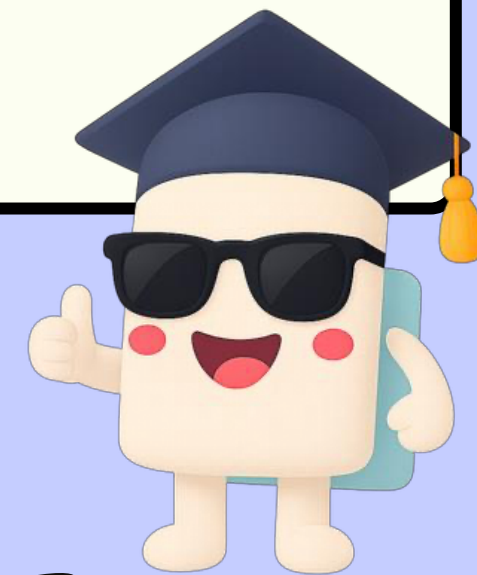
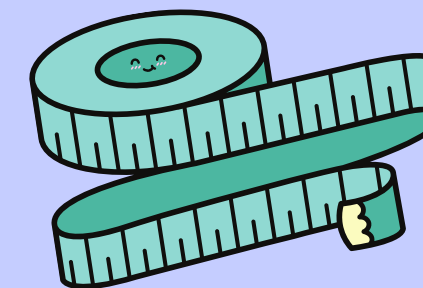
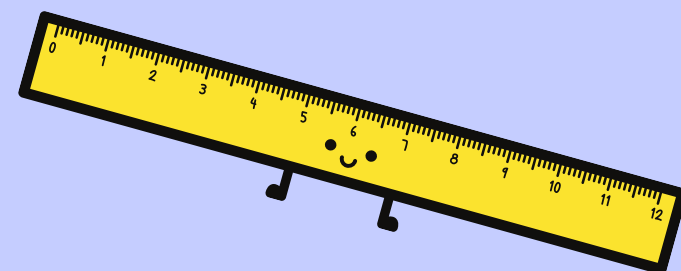
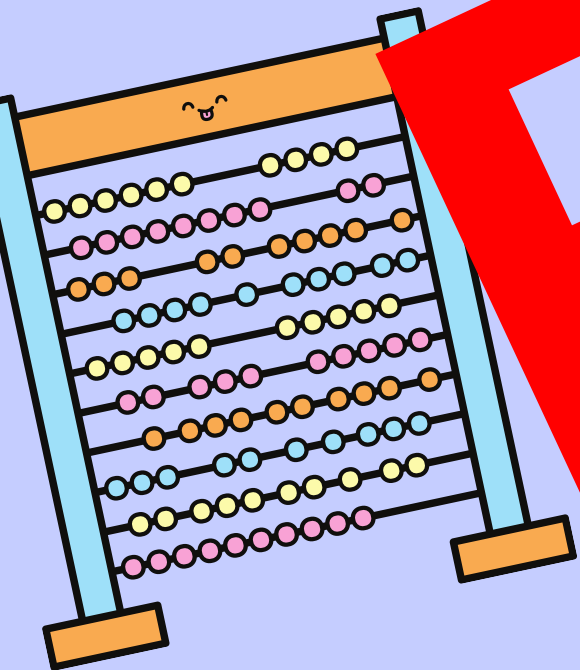
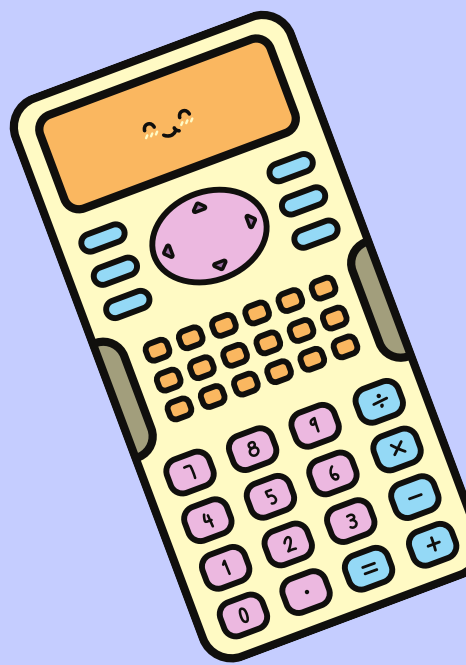
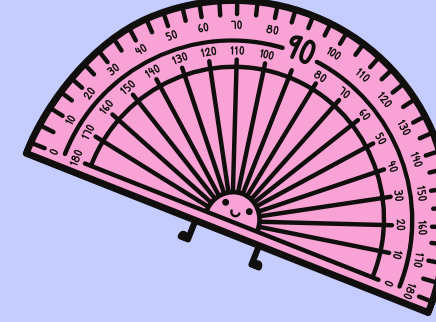
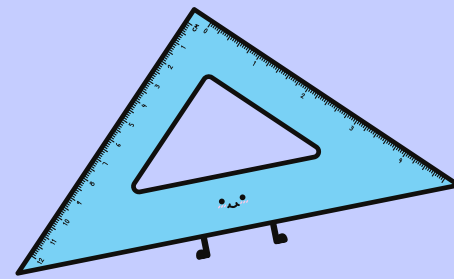
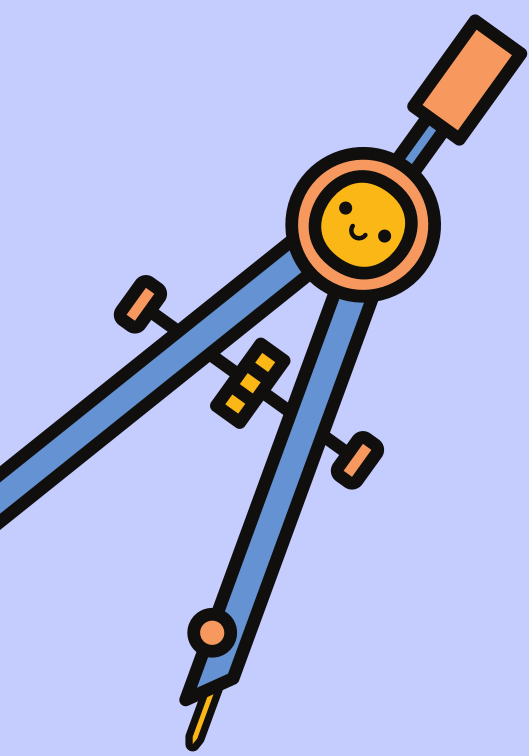
What we learnt

We can name 3D objects.

We can describe flat faces, curved surfaces and corners.

We can test whether an object rolls, slides or stacks.





Well Done!

Question 1

Which feature belongs to a sphere?

A. 4 flat square faces

B. 1 curved surface

C. 2 flat circle faces

D. 8 corners



Answer 1

B. 1 curved surface

when it curved all the way around.



Question 2

True or false?

A cube has only flat faces.



Answer 2

PREVIEW

A cube has 6 flat square faces.



Question 3

Name the 3D object.

It has curved surface, no flat faces and no corners.



Answer 3

PREVIEW

Sphere



Question 4

Which object rolls in reverse direction?

- A. Ball
- B. Dice
- C. Book
- D. Gift box



Answer 4

PREVIEW

Answer 4 is sphere-shaped.



Question 5

True or false?

A cylinder has 2 flat faces.



Answer 5

PREVIEW

A cylinder has 2 flat circle faces.



Question 6

PREVIEW

How many flat faces does a cube have?



Answer 6

PREVIEW

6 flat faces



Question 7

Which object can roll and slide?

- A. Sphere
- B. Cube
- C. Cylinder
- D. Rectangular prism



Answer 7

C. Cylinder

A cylinder rolls on its curved surface and slides on a flat face.



Question 8

True or false?

Equilateral triangular prisms can stack.



Answer 8

PREVIEW

...e.

Then, the faces help them stack.



Question 9

Match the new world objects shaped like a sphere.

PREVIEW



Answer 9

Answer may include a ball, marble, orange or globe.



Question 10

I have 6 equal square faces. What am I?

- A. Sphere
- B. Cube
- C. Cylinder
- D. Cone

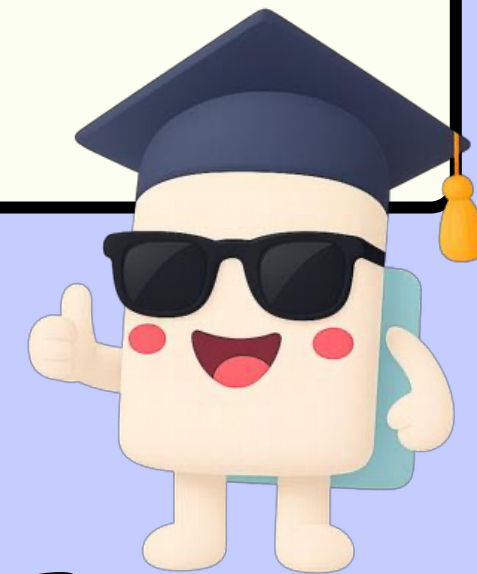
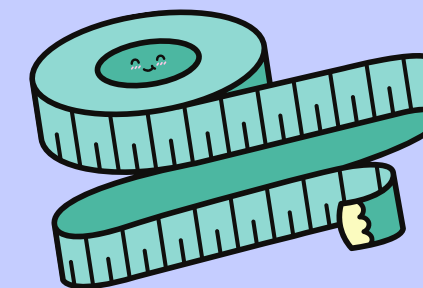
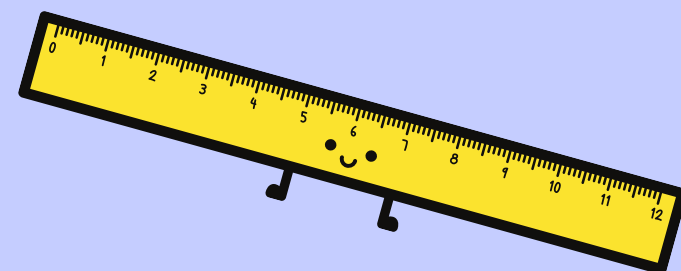
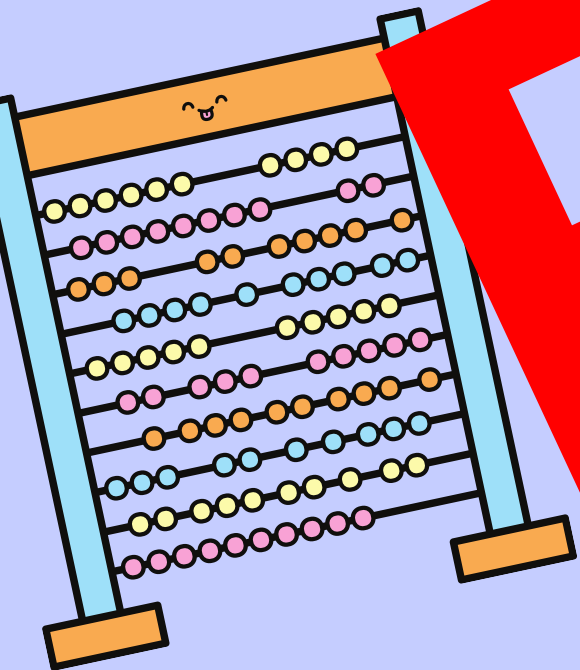
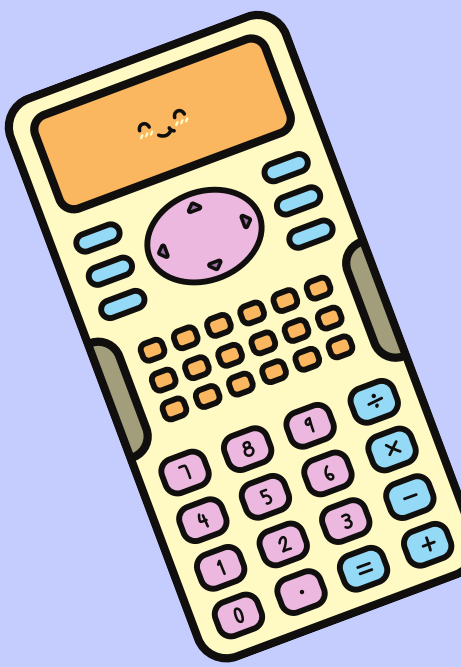
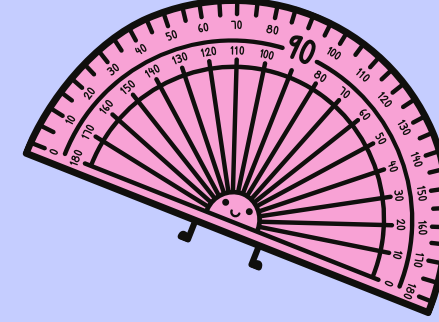
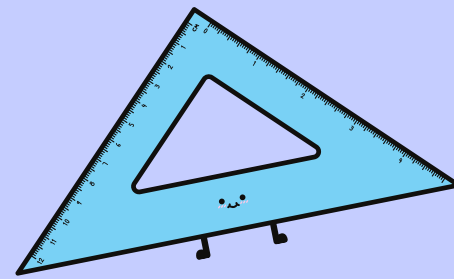
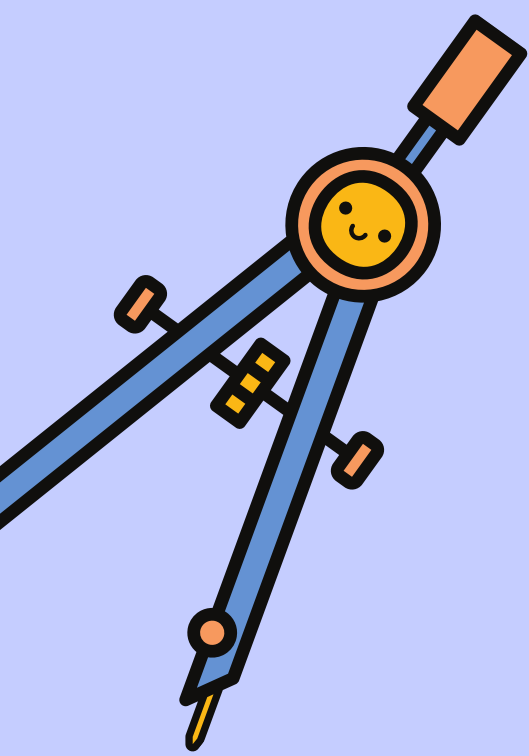


Answer 10

PREVIEW

B. Cuk





Well Done!