



Helping With Math

2-D and 3-D Shapes

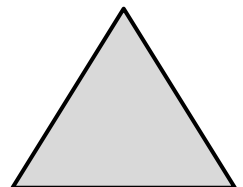
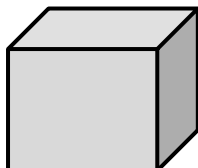
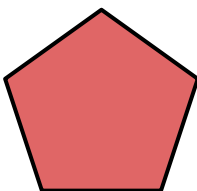
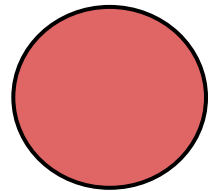
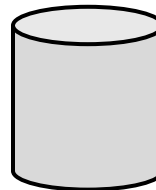
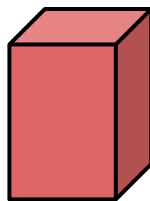
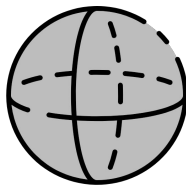


KINDERGARTEN



Shape can be defined as the form of an object or its outline, outer boundary, or outer surface. Shape can be classified into two: 2 dimensional shape which is considered a flat plane shape; and 3 dimensional shape which is considered as a solid shape.

Do you see any object at home that has similar shape with the figures below?



2-DIMENSIONAL SHAPES

2 DIMENSIONAL SHAPES (2-D)

- ❖ Defined as a flat plane shape with two dimensions- length and width



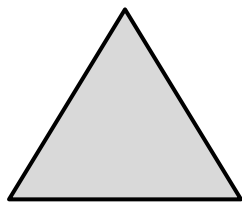
2 DIMENSIONAL SHAPES

SQUARE



- It has 4 sides of the same length
- It has 4 corners

TRIANGLE



- It has 3 straight sides
- It has 3 corners

RECTANGLE



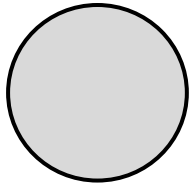
- It has 4 straight sides
- 2 sides are long and 2 sides are shorter



2-DIMENSIONAL SHAPES

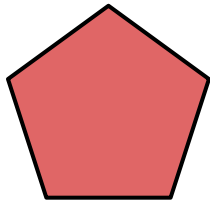
2 DIMENSIONAL SHAPES

CIRCLE



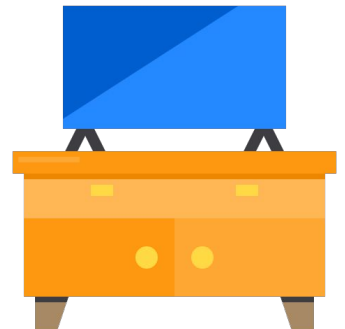
- No straight sides, only one curved side
- No corners

PENTAGON



- It has 5 straight sides
- It has 5 corners

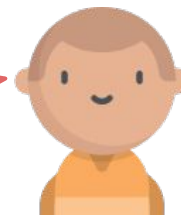
REAL LIFE EXAMPLES OF 2D SHAPES



3-DIMENSIONAL SHAPES

3 DIMENSIONAL SHAPES (3-D)

- ❖ Defined as a solid shape which has three dimensions- length, width, and height



FACE

Part of a shape that is flat (or curved)

EDGE

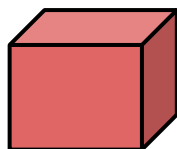
The line where two faces meet

VERTEX (VERTICES)

The place where three or more edges meet

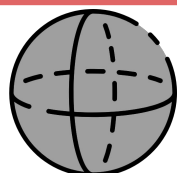
3 DIMENSIONAL SHAPES

CUBE



- 6 Faces
- 12 Edges
- 8 Vertices

SPHERE



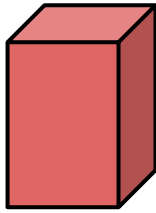
- 1 Curved Face
- 0 Edges
- 0 Vertices



3-DIMENSIONAL SHAPES

3 DIMENSIONAL SHAPES

CUBOID



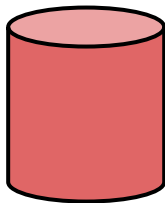
- Also known as rectangular prism
- 6 Faces
- 12 Edges
- 8 Vertices

CONE



- 1 Flat Face
- 1 Curved Face
- 1 Edge
- 1 Vertice

CYLINDER



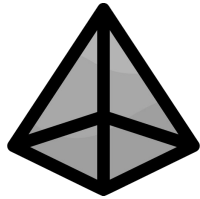
- 2 Flat Face
- 1 Curved Face
- 2 Edges
- 0 Vertice



3-DIMENSIONAL SHAPES

3 DIMENSIONAL SHAPES

RECTANGULAR PYRAMID



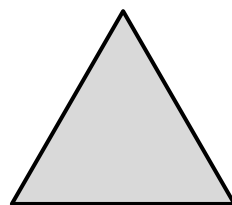
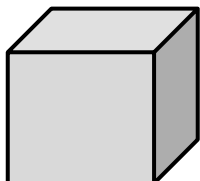
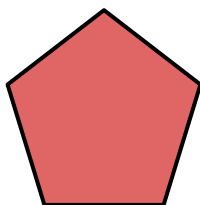
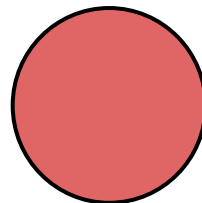
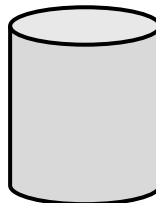
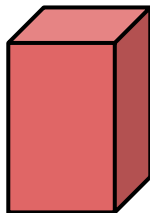
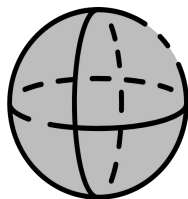
- 5 Faces
- 8 Edges
- 5 Vertices

REAL LIFE EXAMPLES OF 3D SHAPES



EXERCISE

Classify the 2-d and 3-d shapes below. Draw the 2-d shapes on the left side and the 3-d shapes on the right.



2D SHAPES

3D SHAPES



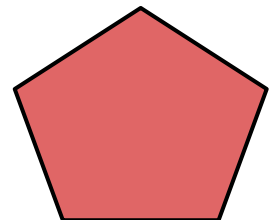
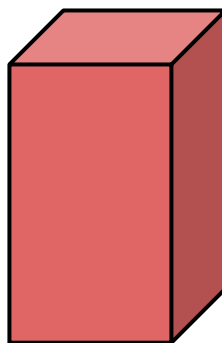
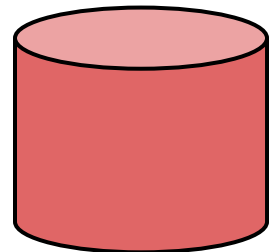
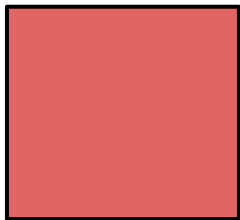
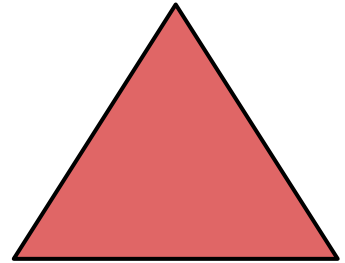
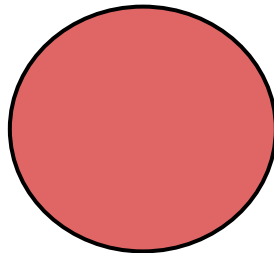
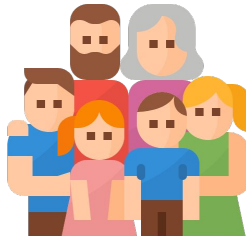
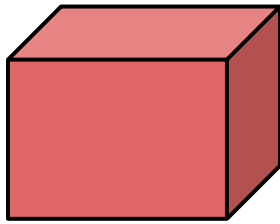
TABLE OF ACTIVITIES

1. The Bailey Family
2. Daddy Bailey's Appliances Picking
3. Townhouse
4. House Architecture
5. Furniture Match
6. Sally's Room
7. Johnny's Playroom
8. House Properties
9. Dream House
10. A Place for Learning



THE BAILEY FAMILY

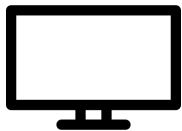
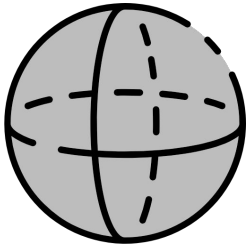
Here are the members of the Bailey family! At this time, they want to play a shape game. Draw a star on the shape if it is a 3d one. Afterwards, write the name of all the shapes below on the box provided.



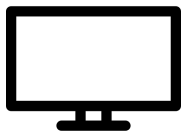
DADDY BAILEY'S APPLIANCES PICKING

Help Mr. Bailey pick the appliances for their new home! Color the correct appliance that describes the right shape in each item.

1.

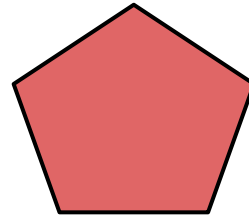


2-Dimensional



3-Dimensional

2.



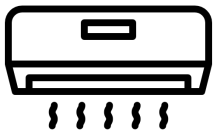
2-Dimensional



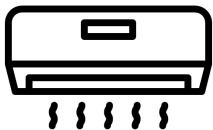
3-Dimensional



3.

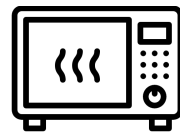
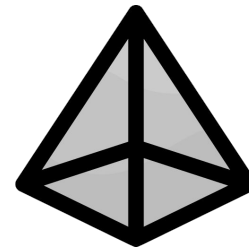


2-Dimensional

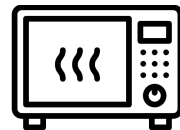


3-Dimensional

4.



2-Dimensional

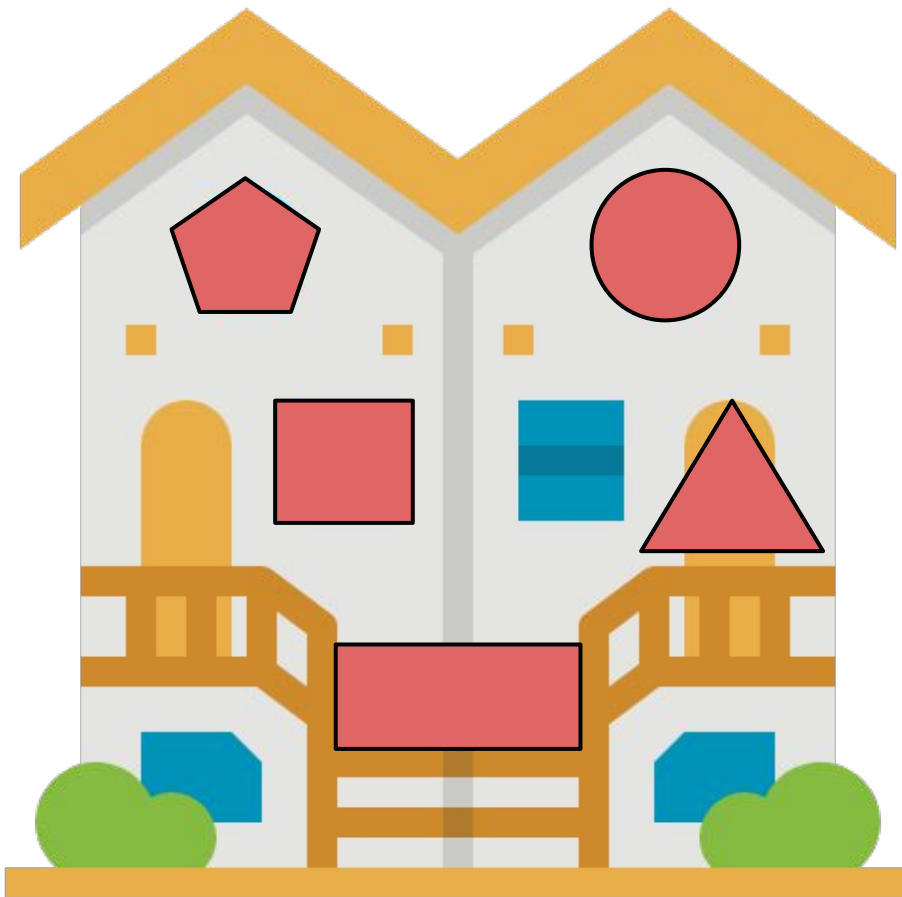


3-Dimensional



TOWNHOUSE

Classify 2d shapes in the house by drawing a line to connect the shapes with its corresponding names. Note: the shapes are in the shade of red.



CIRCLE

TRIANGLE

SQUARE

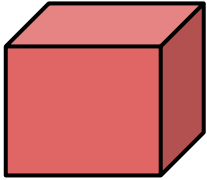
PENTAGON

RECTANGLE

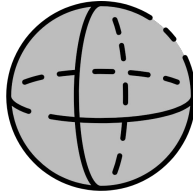


HOUSE ARCHITECTURE

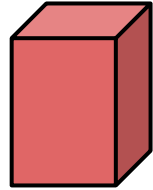
Let us build a dream house! Write the correct name for each 3-dimensional shapes in the mind of the architect. The choices is provided down below.



1.



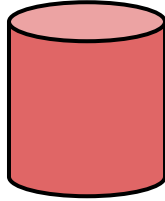
2.



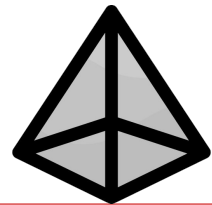
3.



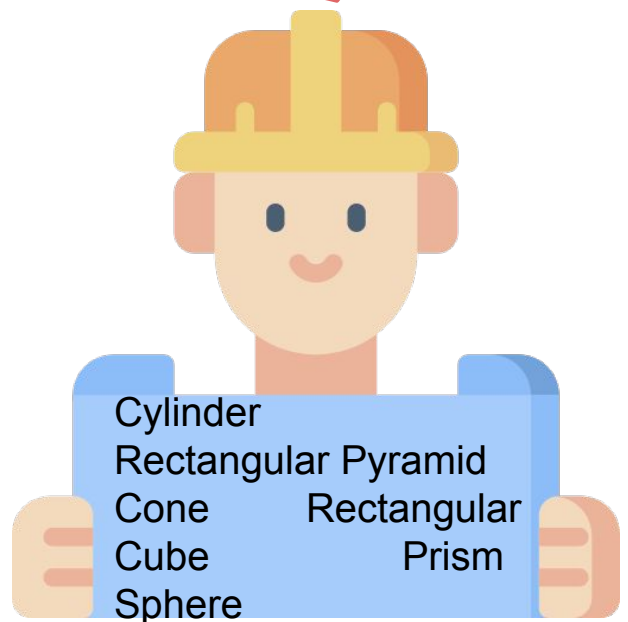
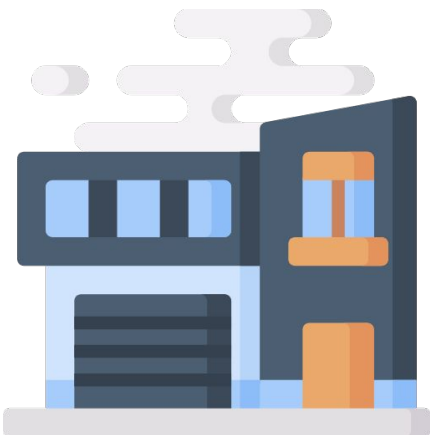
4.



5.



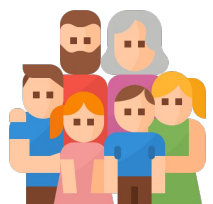
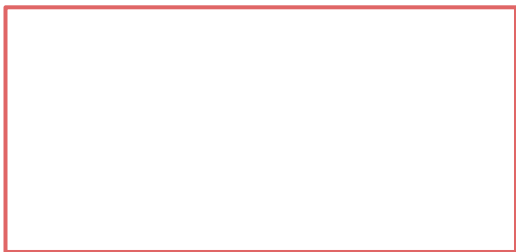
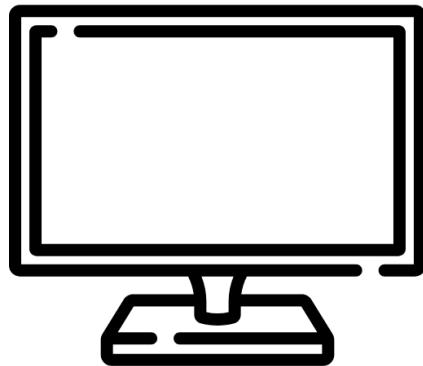
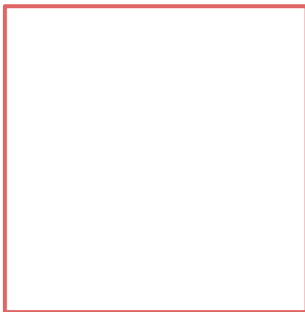
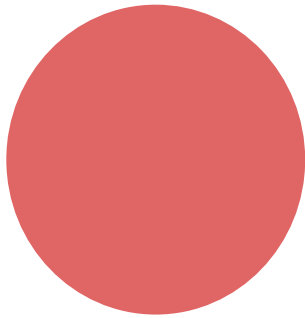
6.



FURNITURE MATCH

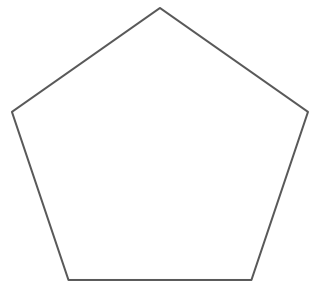
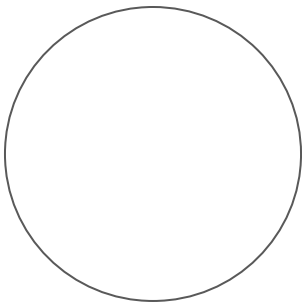
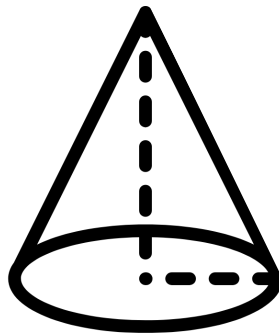
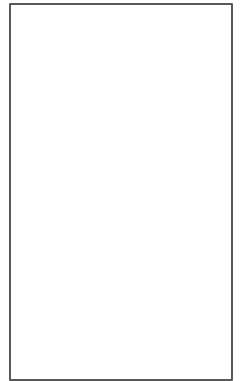
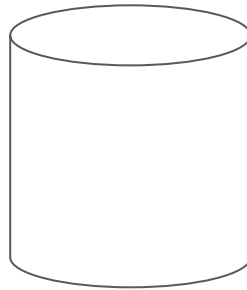
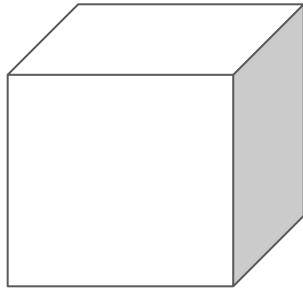
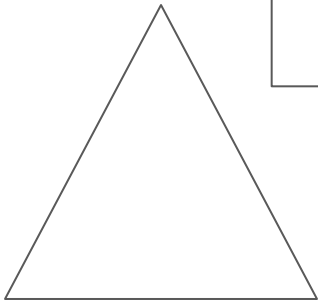
Match the shapes with furnitures of the Bailey family! Color the shape with one color that matches a real life example. An example is provided for you.

EXAMPLE:



SALLY'S ROOM

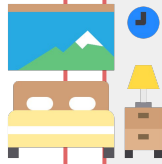
Help Sally paint her walls! Color 2d shapes pink and 3d shapes blue.



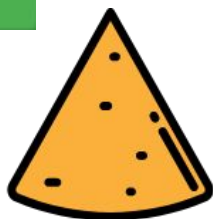
JOHNNY'S PLAYROOM

Sort Johnny's toys! Identify objects as 2d or 3d shape! Cut and paste them in the right column.

2D OBJECTS



3D OBJECTS

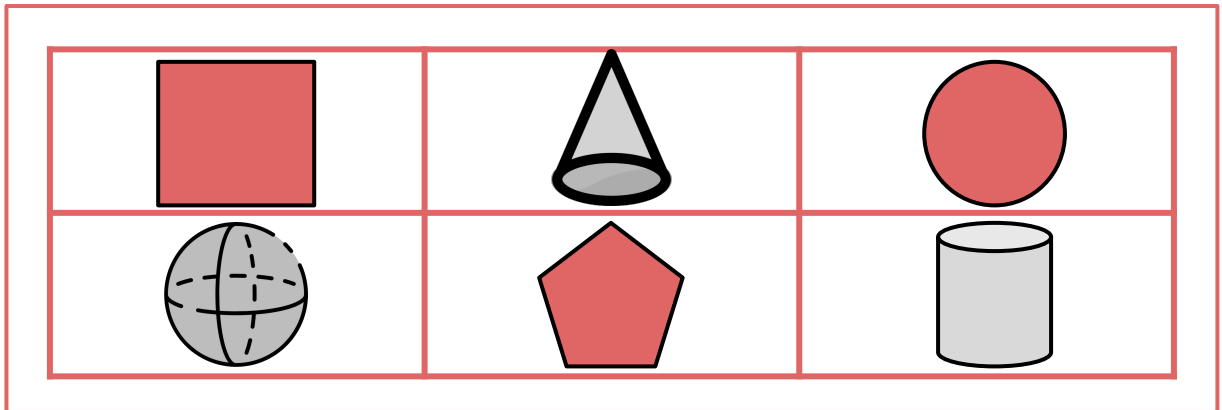


2-D and 3-D Shapes



HOUSE PROPERTIES

Each house design has properties! Identify who has the properties mentioned in each box. Choose the correct shape from the choices below then write the name of the shape on the box provided.



- 1 Flat Face
- 1 Curved Face
- 1 Edge
- 1 Vertice



1.

- It has 5 straight sides
- It has 5 corners



2.

- No straight sides, only one curved side
- No corners



3.

- 2 Flat Face
- 1 Curved Face
- 2 Edges
- 0 Vertice

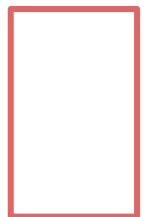


4.



DREAM HOUSE

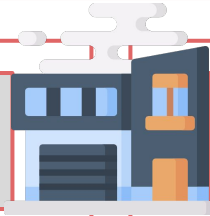
Help the Bailey family build their dream house! From the shapes provided below, form a house. Cut and paste it on the space provided. Afterwards, color the house with the shade of your choice.



A PLACE FOR LEARNING

A house is indeed a place for learning! Draw three 2d and 3d shapes on the box provided. Don't forget to color!

2D SHAPES



3D SHAPES



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