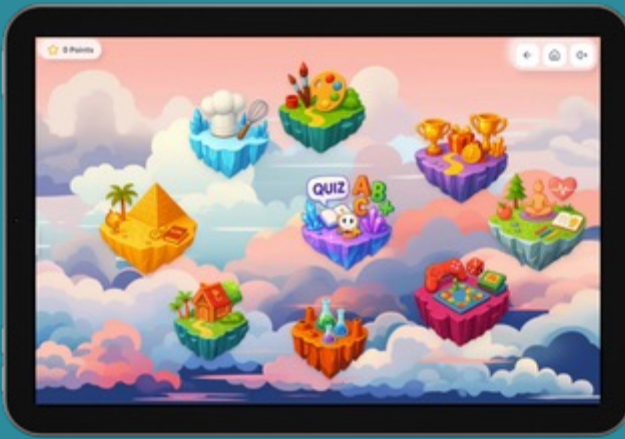


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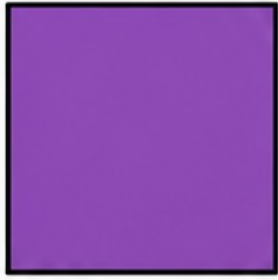


Features of 2D Shapes - Year 1

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Worksheet: Compare and Sort Shapes	
Worksheet: Shape Designer	
Quiz: Features of 2D Shapes	
Assessment: 2D Shape Detective Check-Up	
Rubric: 2D Shape Detective Rubric	



2D Shape Feature Gallery



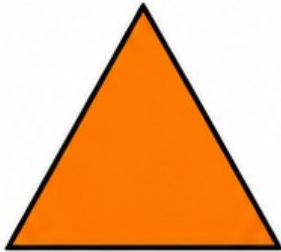
Square

4 equal straight edges • 4 corners



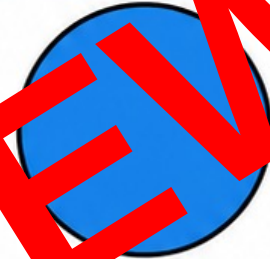
Rectangle

4 straight edges • 4 corners



Triangle

3 straight edges • 3 corners



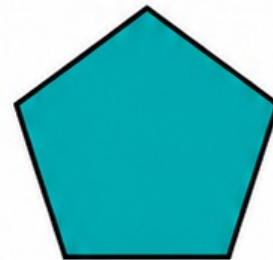
Circle

1 curved boundary • 0 corners



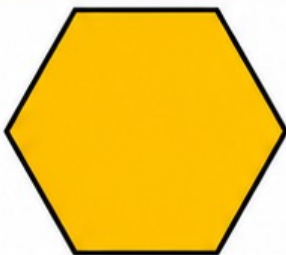
Oval

1 curved boundary • 0 corners



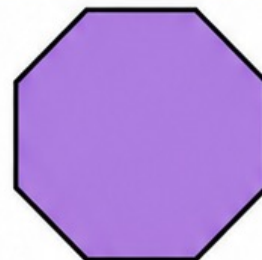
Pentagon

5 straight edges • 5 corners



Hexagon

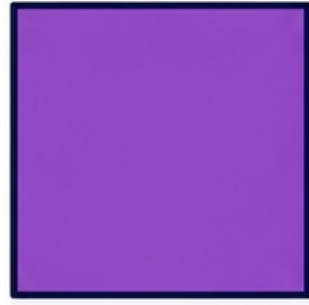
6 straight edges • 6 corners



Octagon

8 straight edges • 8 corners

2D Shape Detective Cards



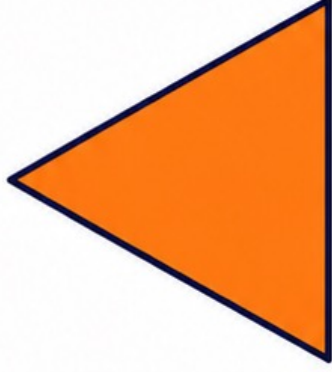
Square

4 equal straight edges • 4 corners



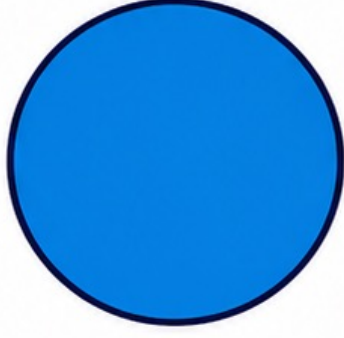
Rectangle

4 straight edges • 4 corners



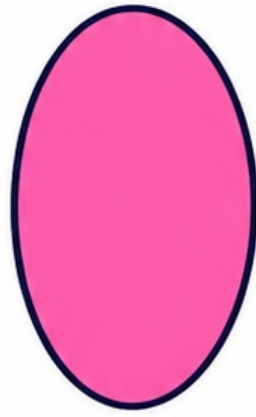
Triangle

3 straight edges • 3 corners



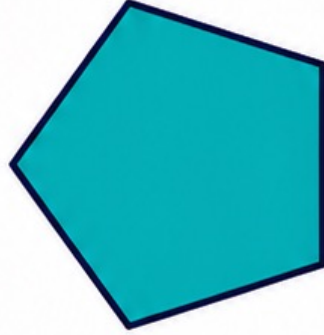
Circle

1 curved boundary • 0 corners



Oval

1 curved boundary • 0 corners



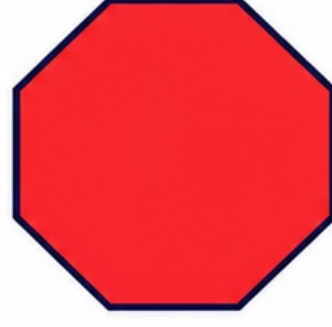
Pentagon

5 straight edges • 5 corners



Hexagon

6 straight edges • 6 corners



Octagon

8 straight edges • 8 corners

PREVIEW

Shape Sorting Studio – Category Mats

Place each shape card on the mat that matches its number of corners.

0 corners



3 corners



4 corners



More than 4 corners



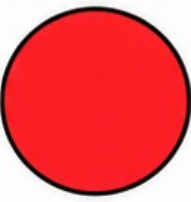
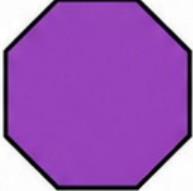
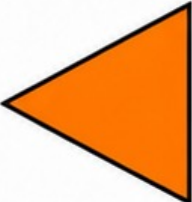
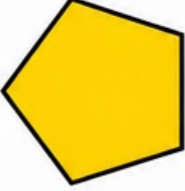
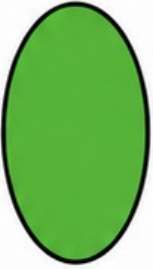
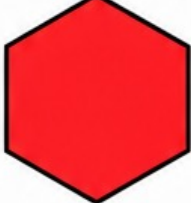
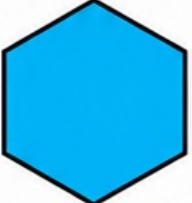
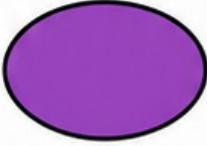
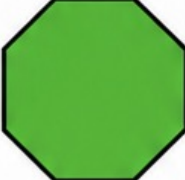
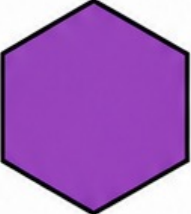
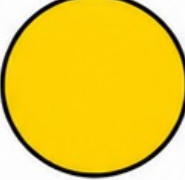
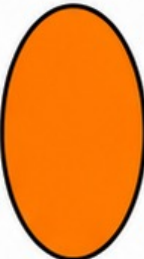
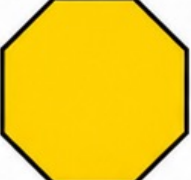
PREVIEW

Shape Sorting Studio – Shape Cards



Feature Finder Four-in-a-Row

Draw a feature card. Copy one matching shape. First to cover four in a row wins.

PREVIEW

Feature Finder — Cards and Rules

How to Play

- 1 Shuffle the feature cards.
- 2 Take turns to draw one card.
- 3 Cover one shape that matches the feature.
- 4 Cover four in a row to win.

0
corners

3
corners

4
corners

More than
4 corners

0
corners

3
corners

4
corners

More than
4 corners

A curved
boundary

6
straight edges

8
straight edges

Only
straight edges

A curved
boundary

6
straight edges

8
straight edges

Only
straight edges

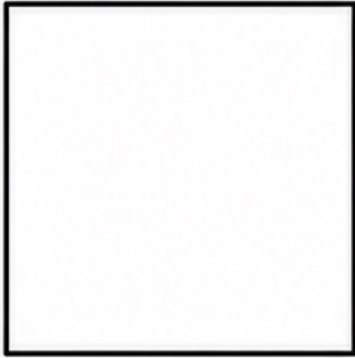
Edges and Corners — Page 1

Name: _____

Count each shape's edges and corners.



Square



Edges or boundary:

Corners:

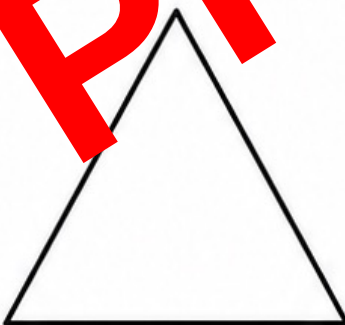
Rectangle



Edges or boundary:

Corners:

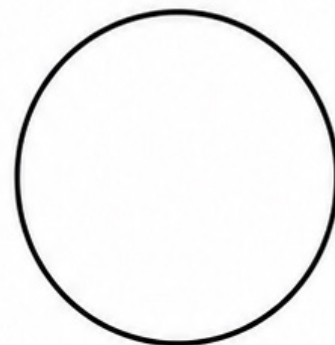
Triangle



Edges or boundary:

Corners:

Circle



Edges or boundary:

Corners:



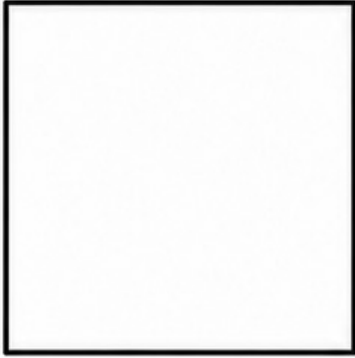
Edges and Corners — Page 1

ANSWERS

Count each shape's edges and corners.



Square



Edges or boundary:

4

Corners:

4

Rectangle



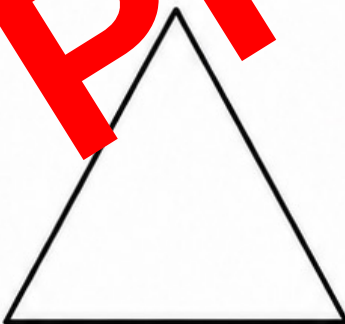
Edges or boundary:

4

Corners:

4

Triangle



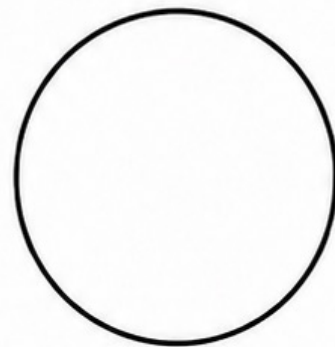
Edges or boundary:

3

Corners:

3

Circle



Edges or boundary:

1 curved boundary

Corners:

0



Edges and Corners — Page 2

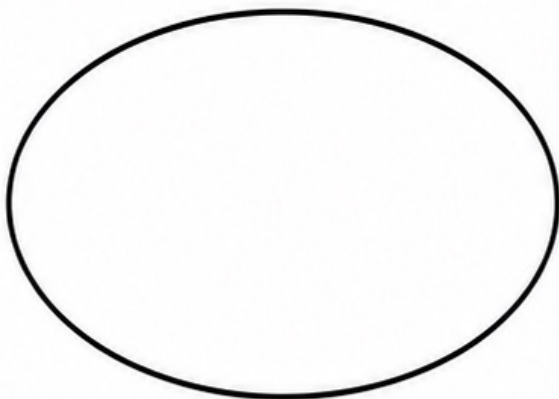
Name: _____



Count each shape's edges and corners.



Oval



Edges or boundary:

Corners:

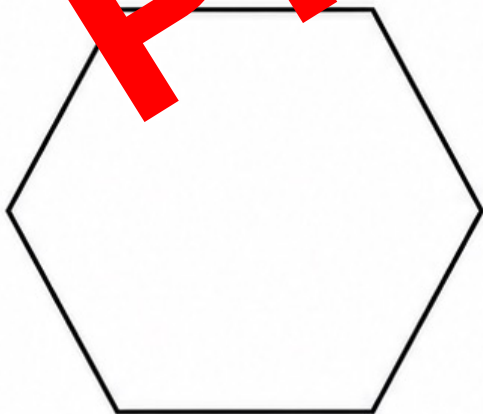
Pentagon



Edges or boundary:

Corners:

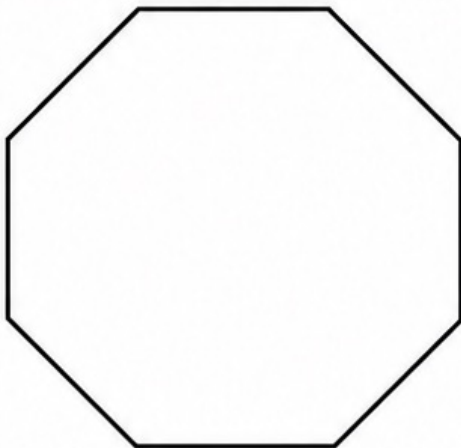
Hexagon



Edges or boundary:

Corners:

Octagon



Edges or boundary:

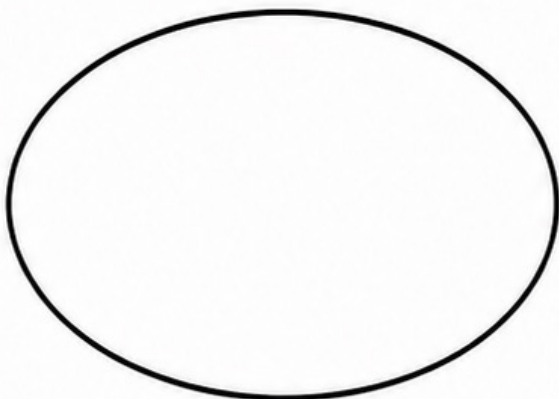
Corners:



Count each shape's edges and corners.



Oval



Edges or boundary:

1 curved boundary

Corners:

Pentagon



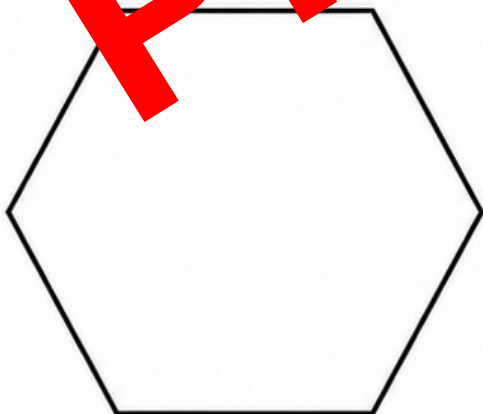
Edges or boundary:

5

Corners:

5

Hexagon



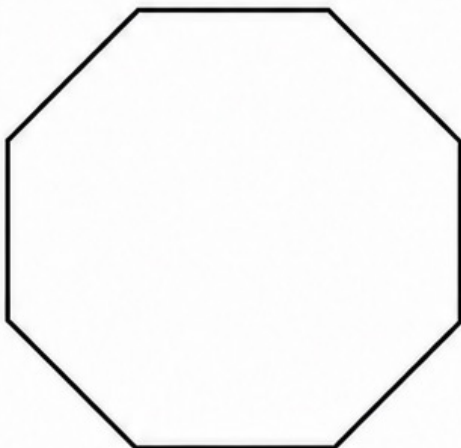
Edges or boundary:

6

Corners:

6

Octagon



Edges or boundary:

8

Corners:

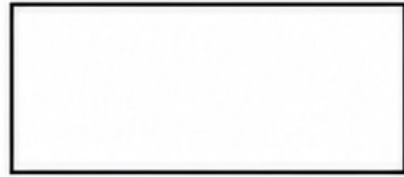
8

Trace each name, then draw the shape.



square

Draw it.



rectangle

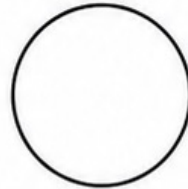
Draw it.

PREVIEW



triangle

Draw it.



circle

Draw it.

Trace each name, then draw the shape.



square

Draw it.



rectangle

Draw it.

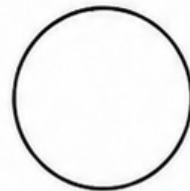
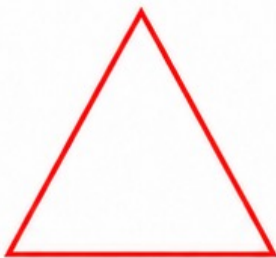


PREVIEW



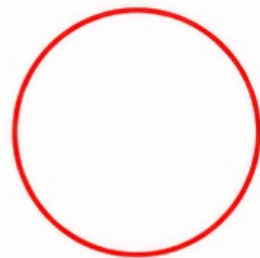
triangle

Draw it.



circle

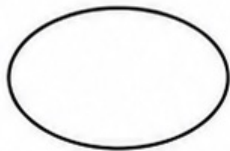
Draw it.



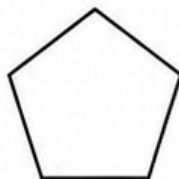
Name, Trace and Draw — Page 2

Name: _____

Trace each name, then draw the shape.



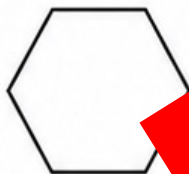
oval



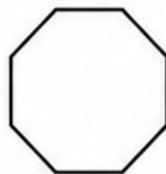
pentagon

Draw it.

Draw it.



hexagon



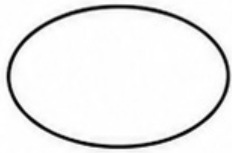
octagon

Draw it.

Draw it.

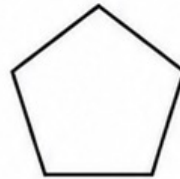
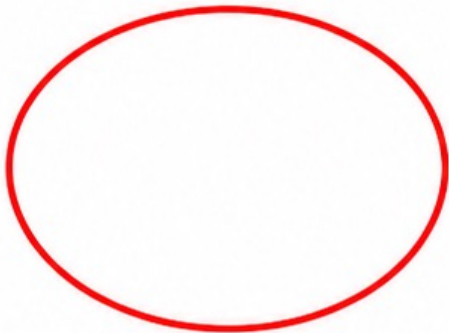
PREVIEW

Trace each name, then draw the shape.



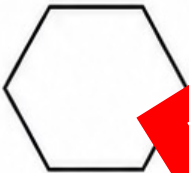
oval

Draw it.



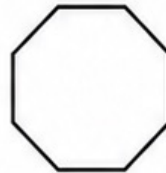
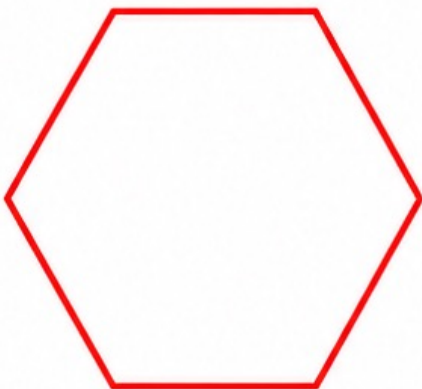
pentagon

Draw it.



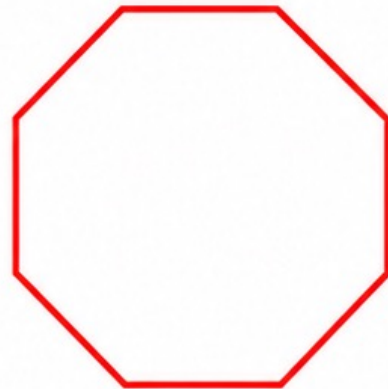
hexagon

Draw it.



octagon

Draw it.

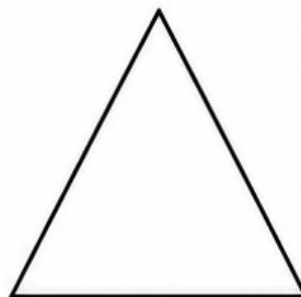


PREVIEW

Real-World Shape Match — Page 1

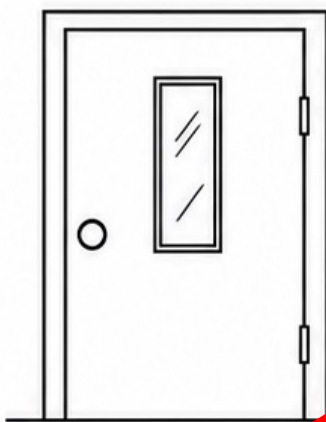
Name: _____

Write each object's letter beside the matching shape.

A

Letter:

triangle

B

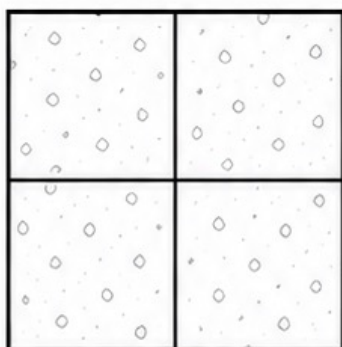
Letter:

circle

C

Letter:

square

D

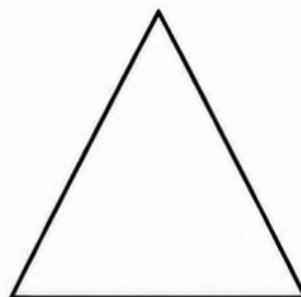
Letter:

rectangle

Real-World Shape Match — Page 1

ANSWERS

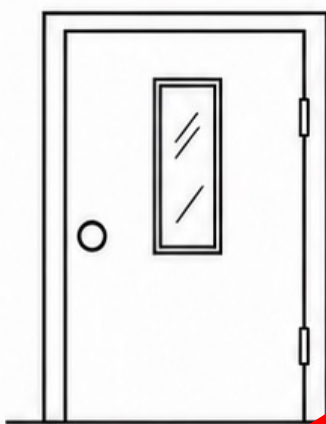
Write each object's letter beside the matching shape.

A

Letter:

C

triangle

B

Letter:

A

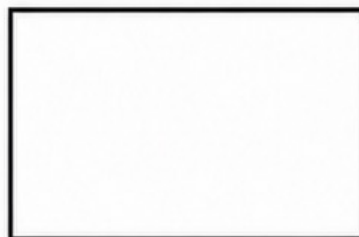
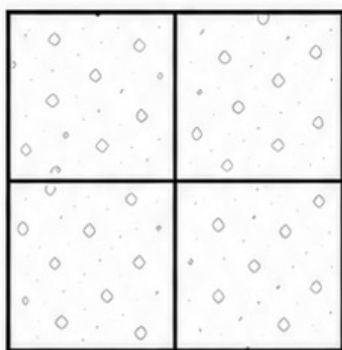
circle

C

Letter:

D

square

D

Letter:

B

rectangle

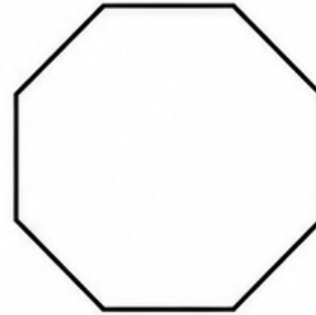
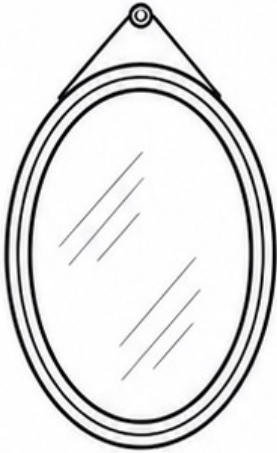


Real-World Shape Match — Page 2

Name: _____

Write each object's letter beside the matching shape.

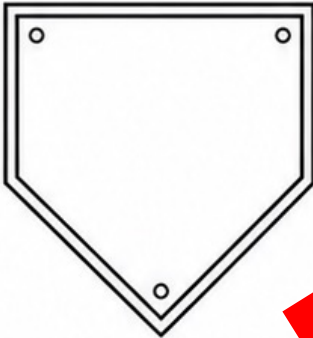
A



Letter:

octagon

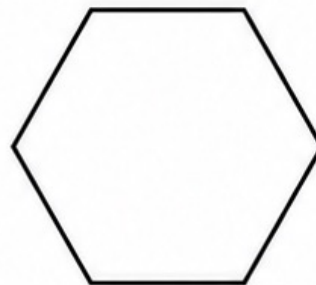
B



Letter:

oval

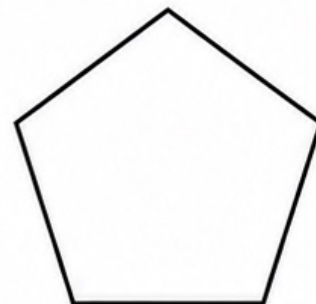
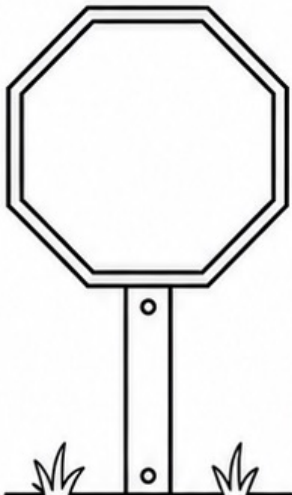
C



Letter:

hexagon

D



Letter:

pentagon

PREVIEW

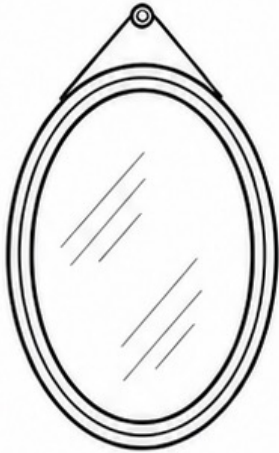


Real-World Shape Match — Page 2

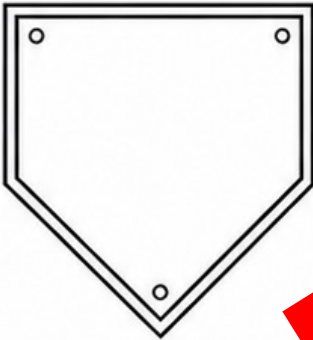
Name: **ANSWERS**

Write each object's letter beside the matching shape.

A



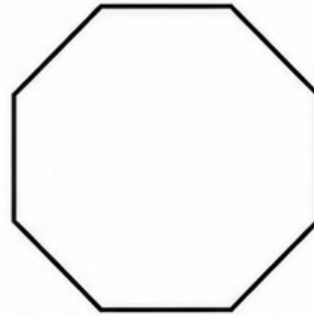
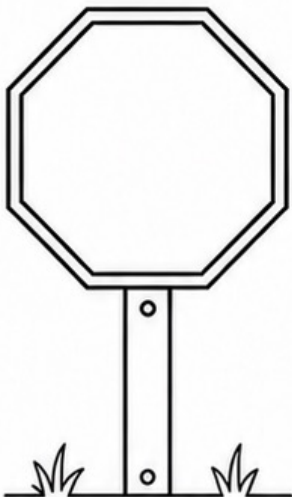
B



C



D



octagon

Letter:

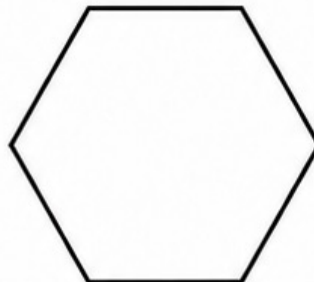
D



oval

Letter:

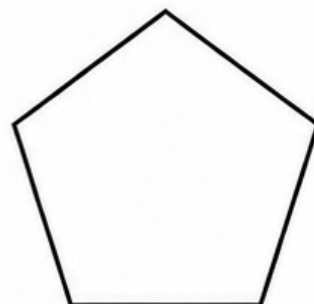
A



hexagon

Letter:

C



pentagon

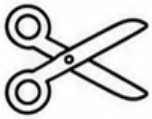
Letter:

B

PREVIEW

Compare and Sort Shapes — Page 1

Name: _____



Write each shape name in the best box.



0 corners

3 corners

4 corners

More than 4 corners

PREVIEW

circle

oval

triangle

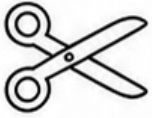
square

rectangle

pentagon

hexagon

octagon



Write each shape name in the best box.



0 corners

circle

oval

3 corners

triangle

4 corners

square

rectangle

More than 4 corners

pentagon

hexagon

octagon

circle

oval

triangle

square

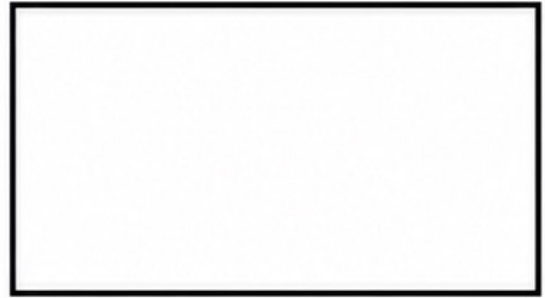
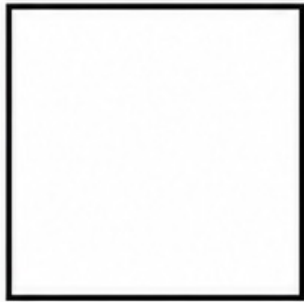
rectangle

pentagon

hexagon

octagon

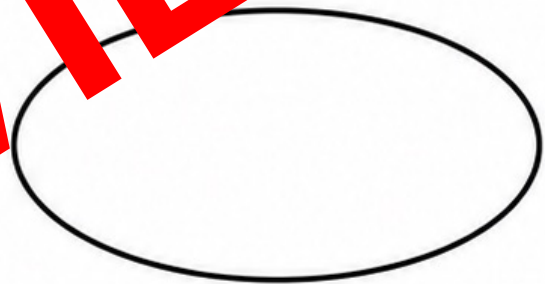
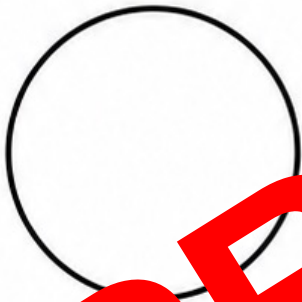
① Square and Rectangle



Both shapes have _____ corners.

Only the square has _____ equal edges.

② Circle and Oval



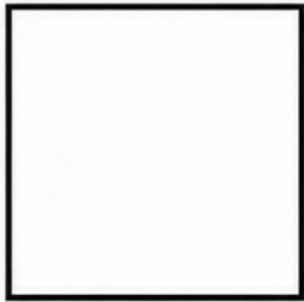
Both shapes have a _____ boundary.

Neither shape has any _____.

③ Draw a shape with 4 corners.

Name it: _____

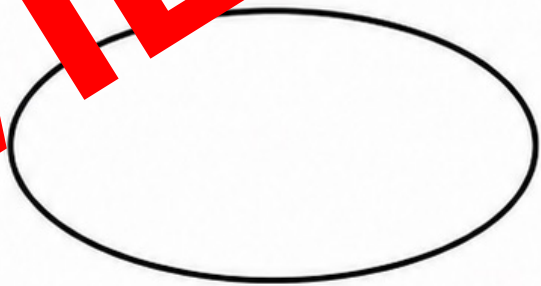
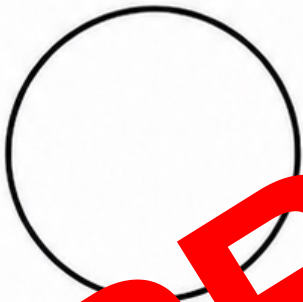
① Square and Rectangle



Both shapes have 4 corners.

Only the square has 4 equal edges.

② Circle and Oval



Both shapes have a curved boundary.

Neither shape has any corners.

③ Draw a shape with 4 corners.



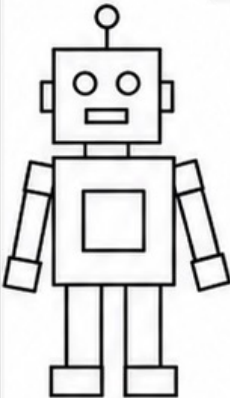
Name it: square

Shape Designer

Name: _____

Create a picture using at least five 2D shapes.

Shape	How many?
square	
rectangle	
triangle	
circle	
oval	
Other	

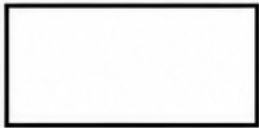
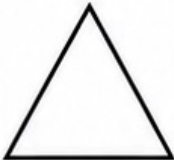
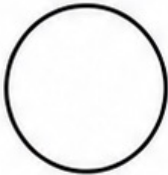
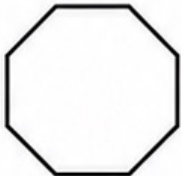


One shape I used was a _____. It has _____.





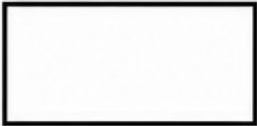
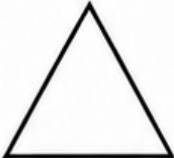
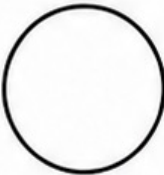
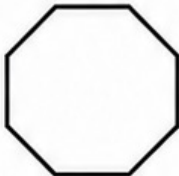
Complete the feature table.

Shape	Name	Edges or boundary	Corners
			
			
			
			
			
			
			
			

PREVIEW



Complete the feature table.

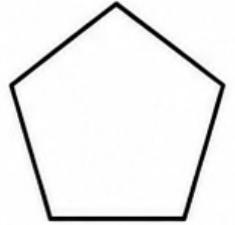
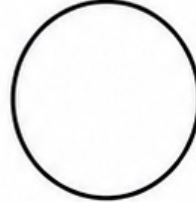
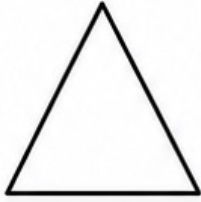
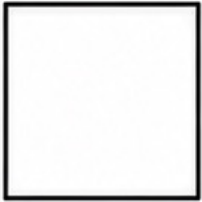
Shape	Name	Edges or boundary	Corners
	square	4	4
	rectangle	4	4
	triangle	3	3
	circle	1 curved boundary	0
	oval	1 curved boundary	0
	pentagon	5	5
	hexagon	6	6
	octagon	8	8

2D Shape Detective Check-Up — Page 2

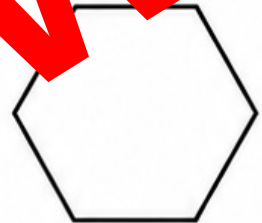
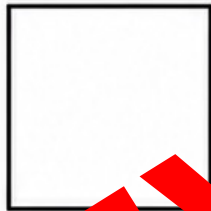
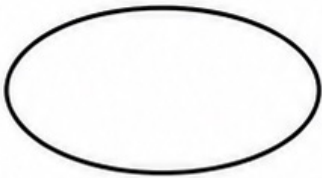
Name: _____



- 1** Circle every shape with 4 corners.



- 2** Tick every shape with a curved boundary.



- 3** Draw a shape with 6 straight edges. Name it: _____

PREVIEW

- 4** How are a square and rectangle the same?

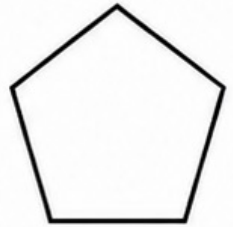
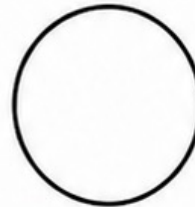
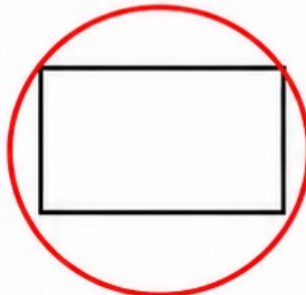
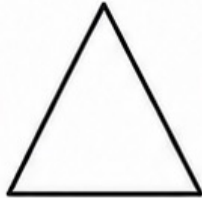
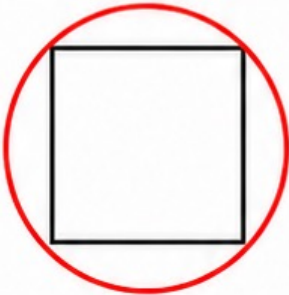


2D Shape Detective Check-Up — Page 2

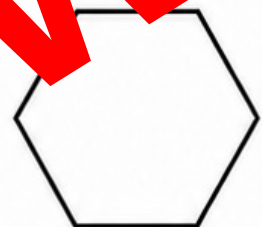
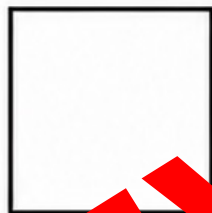
Name: _____ **ANSWERS**



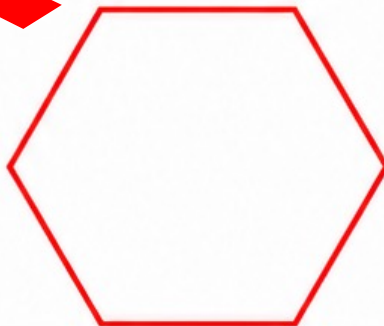
- 1** Circle every shape with 4 corners.



- 2** Tick every shape with a curved boundary.



- 3** Draw a shape with 6 straight edges. Name it: hexagon



- 4** How are a square and rectangle the same?

Both have 4 straight edges and 4 corners.



2D Shape Detective Rubric



Student: _____ Date: _____

Criteria	BEGINNING	DEVELOPING	ACHIEVING	CONFIDENT	EXCEEDING
1. Names familiar 2D shapes	Names 1 shape with help.	Names 2-3 familiar shapes.	Names 4-5 familiar shapes.	Names all 8 taught shapes.	Names shapes and explains choices.
2. Identifies edges, boundaries and corners	Needs help to notice features.	Identifies some feature for some shapes.	Counts edges and corners on common shapes.	Describes straight or curved boundaries accurately.	Uses features to justify shape names.
3. Compares and classifies by features	Sorts with full support.	Sorts by one given feature.	Sorts by edges or corners.	Chooses and explains a sorting rule.	Uses more than one rule and explains.
4. Draws and explains a shape	Draws with considerable support.	Draws a recognisable shape with prompting.	Draws and names a shape with stated features.	Draws accurately and explains its features.	Designs a shape picture and justifies features.

Teacher note:

Features of 2D Shapes

PREVIEW



Learning Intention

We are learning to:

- name familiar 2D shapes
- describe edges, boundaries and corners
- compare and sort shapes by their features



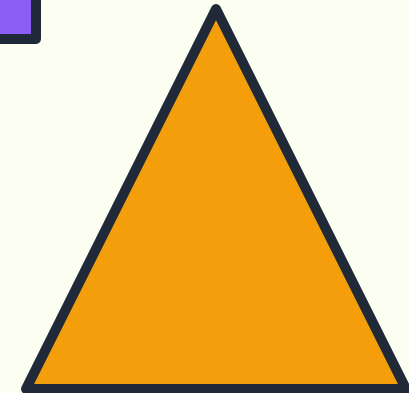
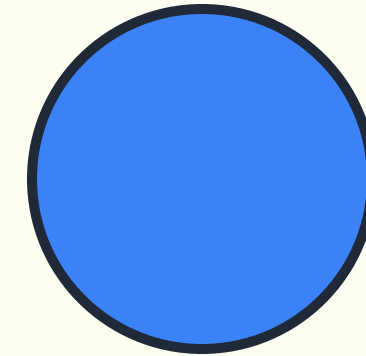
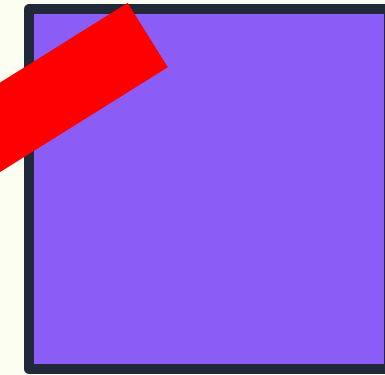
What Is a 2D Shape?

A 2D shape is flat.

It has length and width.

You can turn, slide or change its size

without changing its name.

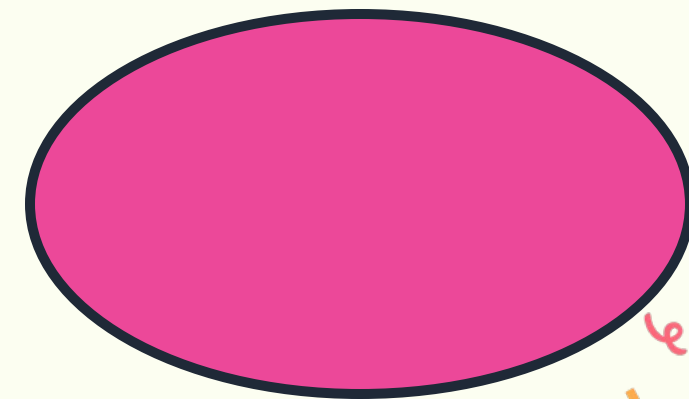
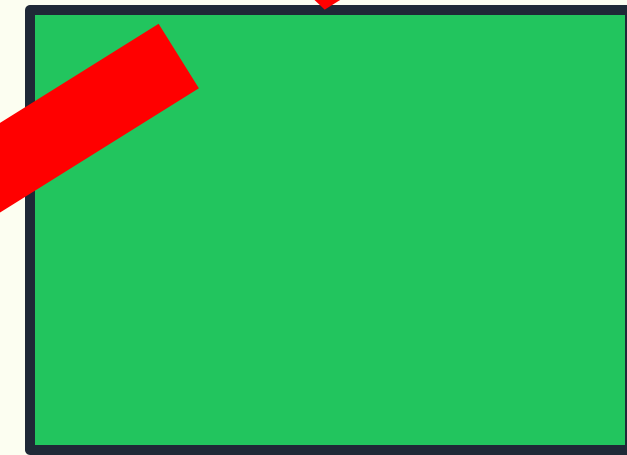


Straight and Curved Boundaries

A straight boundary does not bend.

A curved boundary bends smoothly.

Trace the outside of a shape. Is its boundary straight, curved or both?

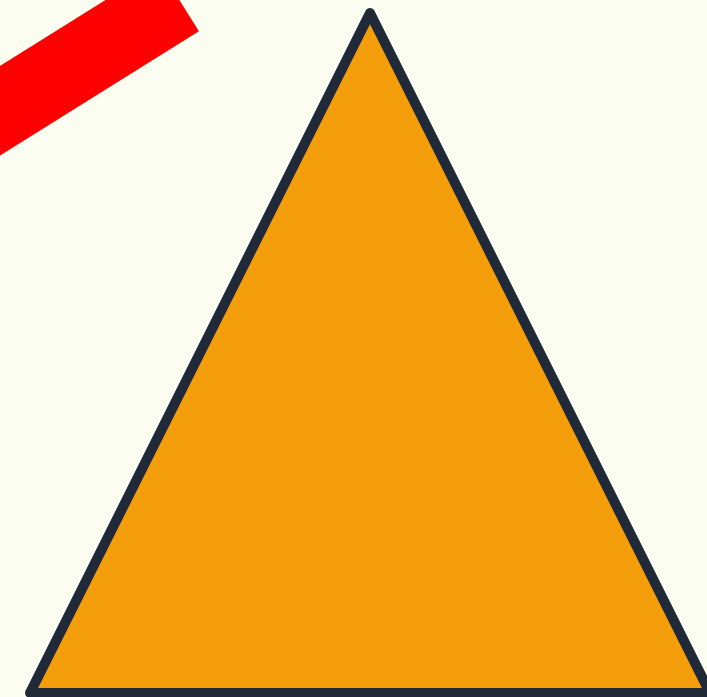


Edges and Corners

An edge is a straight part of a shape's boundary.

A curved shape has a curved boundary instead.

A corner is where two straight edges meet.

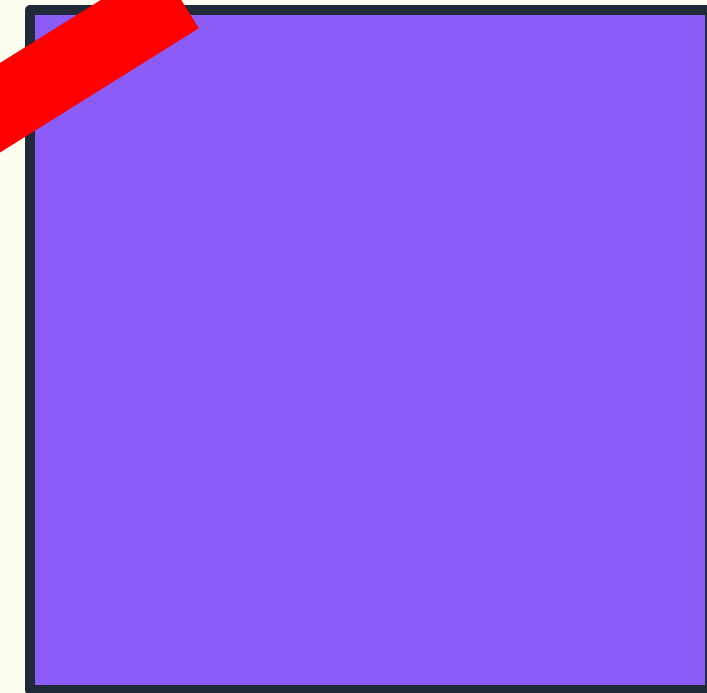


Square

A square has:

- 4 equal straight edges.
- 4 corners.

Its defining features are the same when it is turned.



Rectangle

A rectangle has:

- 4 straight edges
- 4 corners

Opposite edges are the same length.

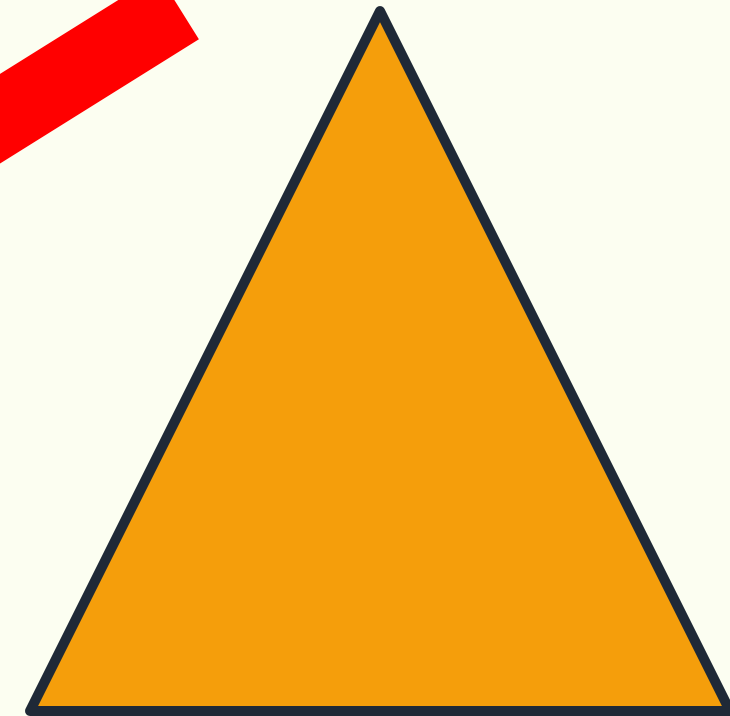


Triangle

A triangle has:

- 3 straight edges
- 3 corners

Triangles can look different and still have the same features.

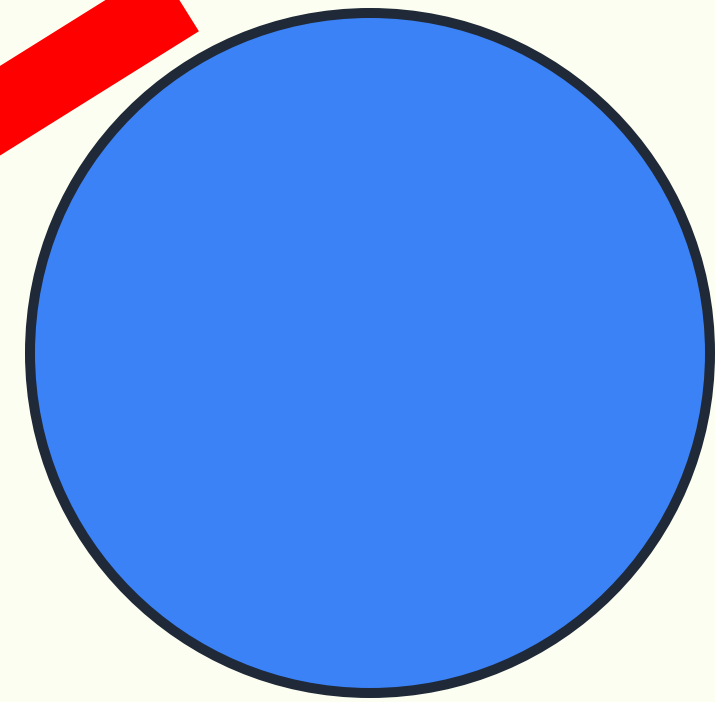


Circle

A circle has:

- 1 continuous curved boundary
- 0 corners

Every part of its boundary curves.

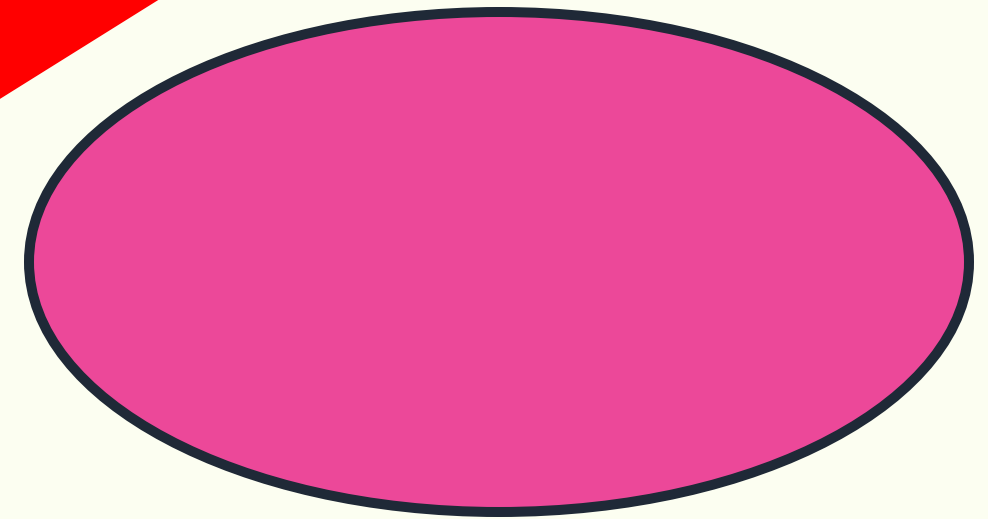


Oval

An oval has:

- 1 continuous curved boundary
- 0 corners

It is longer in one direction than a circle.

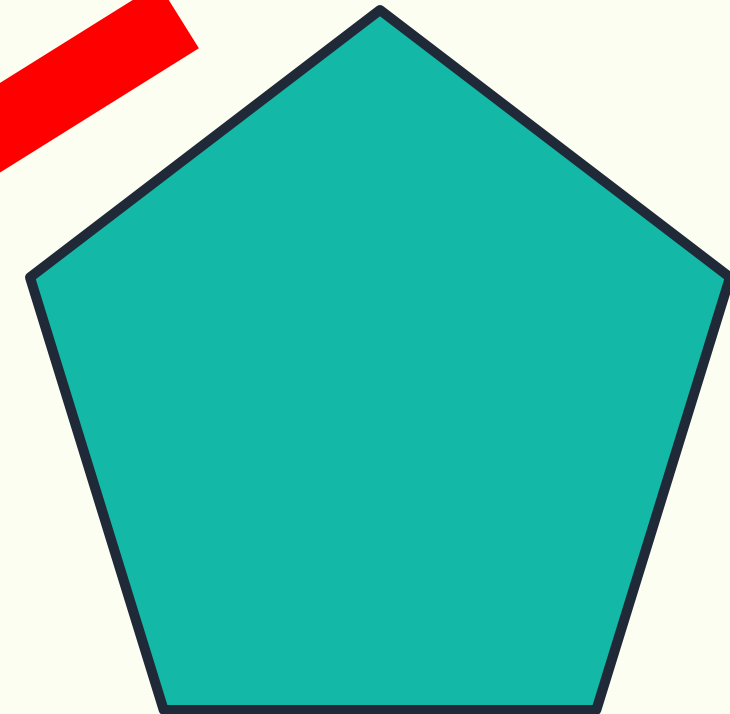


Pentagon

A pentagon has:

- 5 straight edges
- 5 corners

Count each edge once as you move
around the boundary.

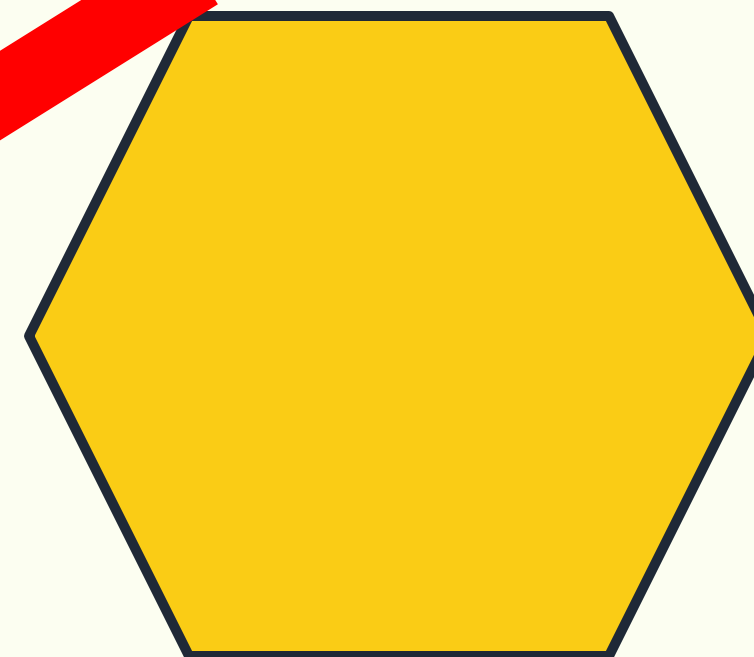


Hexagon

A hexagon has:

- 6 straight edges
- 6 corners

A honeycomb cell or a nut has a hexagonal face.

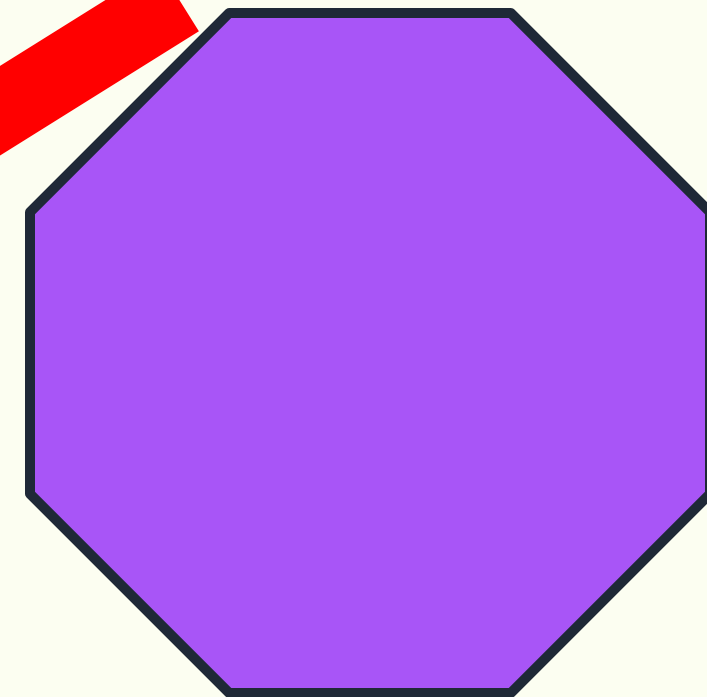


Octagon

An octagon has:

- 8 straight edges
- 8 corners

A stop sign has an octagonal face.



Shape Feature Summary

Square — 4 straight edges, 4 corners

Rectangle — 4 straight edges, 4 corners

Triangle — 3 straight edges, 3 corners

Circle — 1 curved boundary, 0 corners

Oval — 1 curved boundary, 0 corners

Pentagon — 5 straight edges, 5 corners

Hexagon — 6 straight edges, 6 corners

Octagon — 8 straight edges, 8 corners



Same Shape, New Position

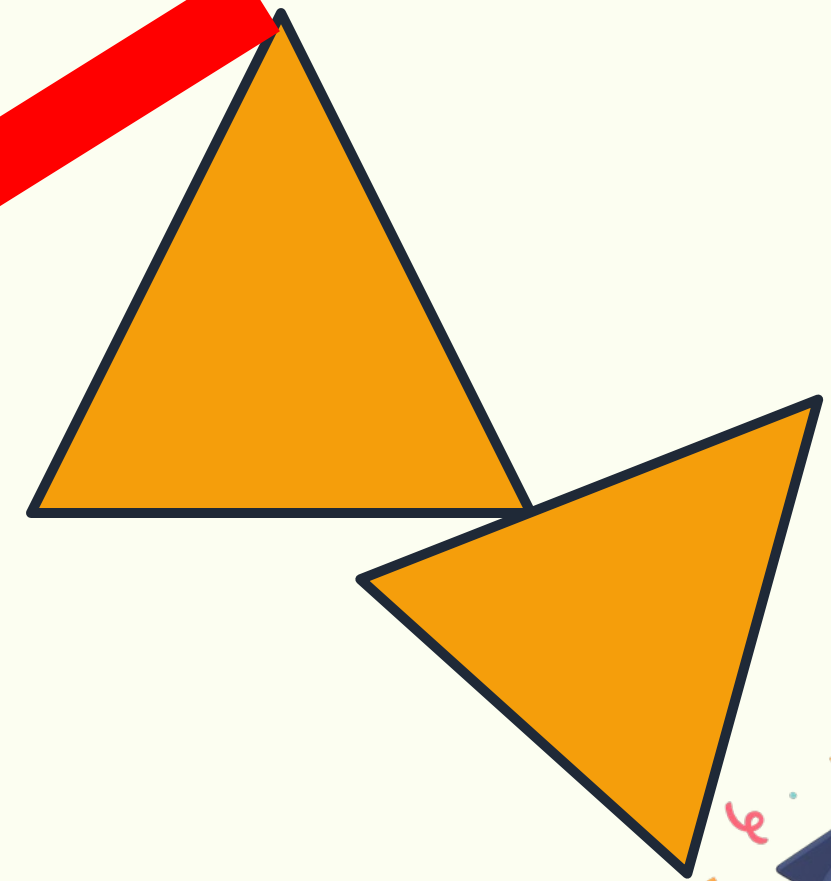
Turn it. Slide it. Make it bigger or smaller.

A triangle still has 3 straight edges and 3

corners.

Position and size don't change its

defining features.

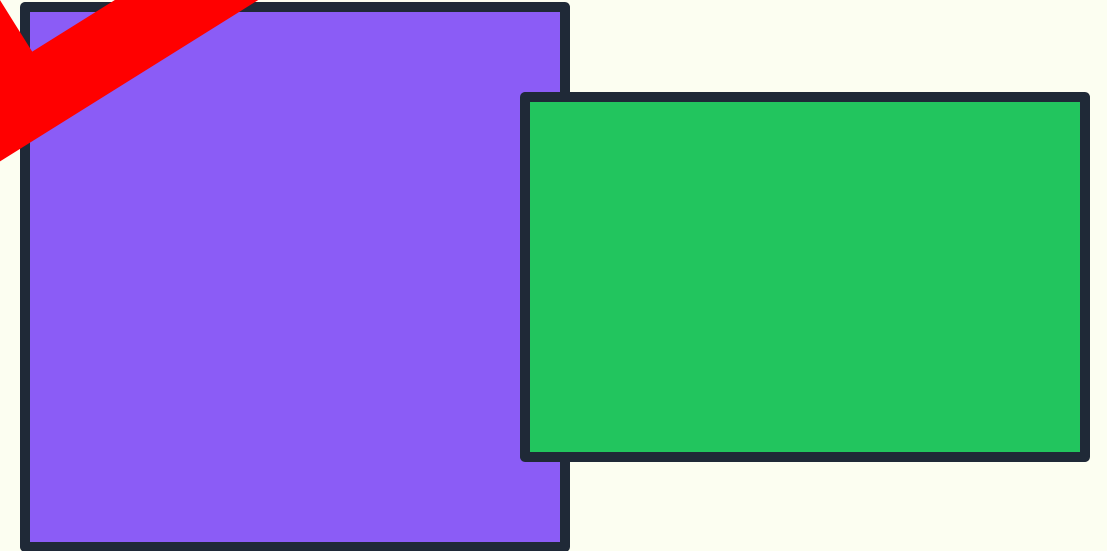


Compare a Square and a Rectangle

Both have 4 straight edges and 4 corners.

A square has 4 equal edges.

A rectangle has matching opposite edges.

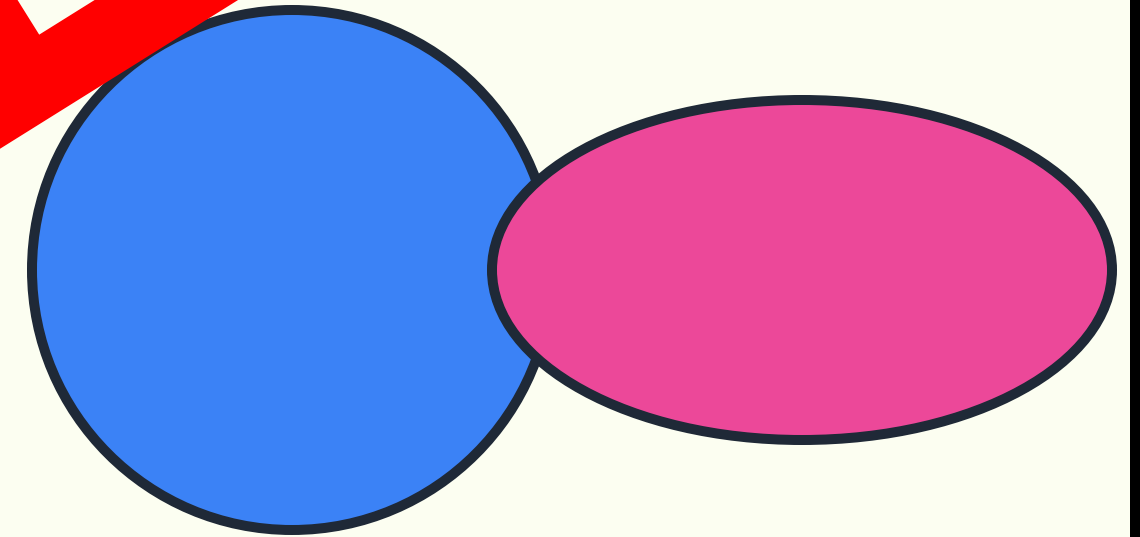


Compare a Circle and an Oval

Both have one curved boundary and no corners.

A circle is equally round in every direction.

An oval is longer in one direction.



Sort by Number of Corners

0 corners — circle, oval

3 corners — triangle

4 corners — square, rectangle

More than 4 corners — pentagon, hexagon, octagon



Sort by Boundary Type

Straight edges only:

square, rectangle, triangle, pentagon, hexagon, octagon

Curved boundary:

circle, oval



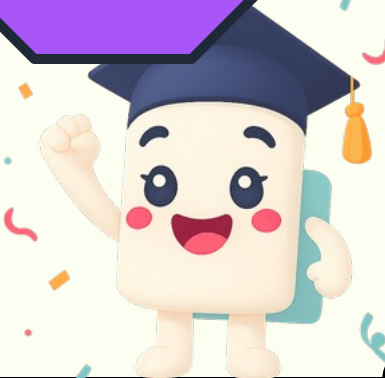
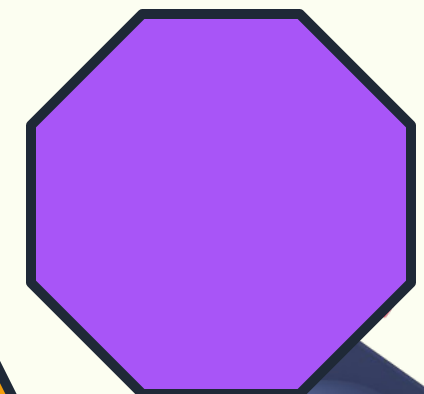
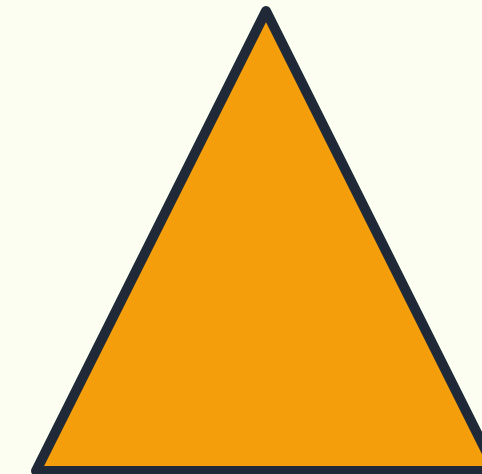
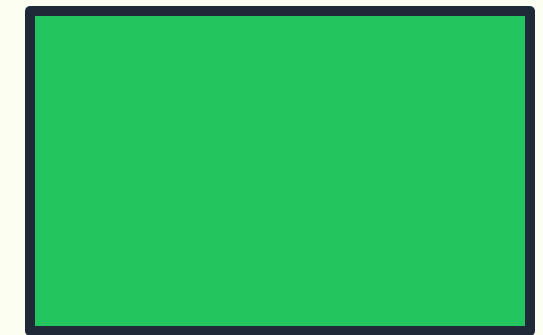
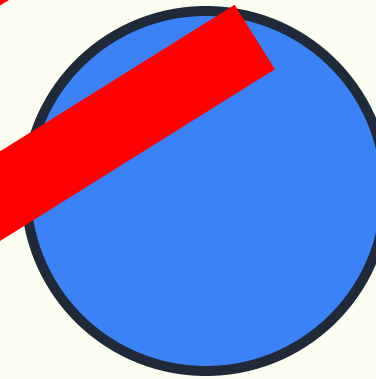
Be a Shape Detective

Look for the flat faces of objects.

Name the 2D shape you can see.

Explain your evidence using edges,

boundaries and corners.

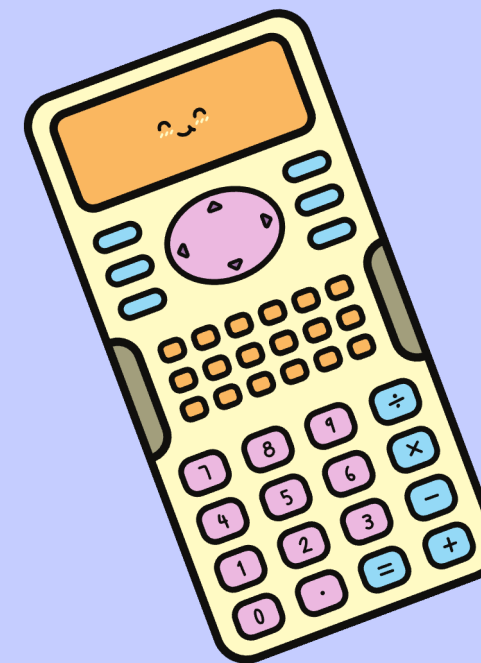
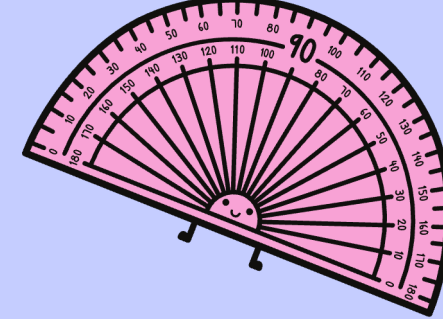
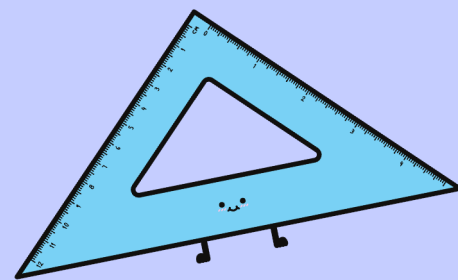
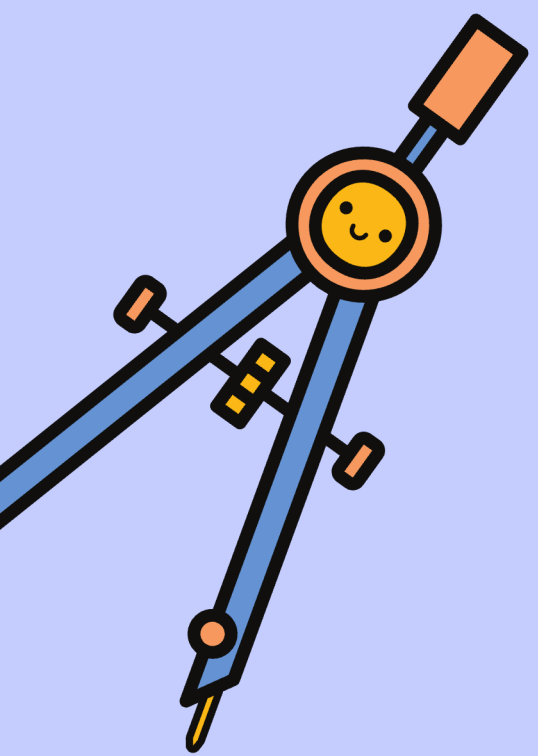


Recap

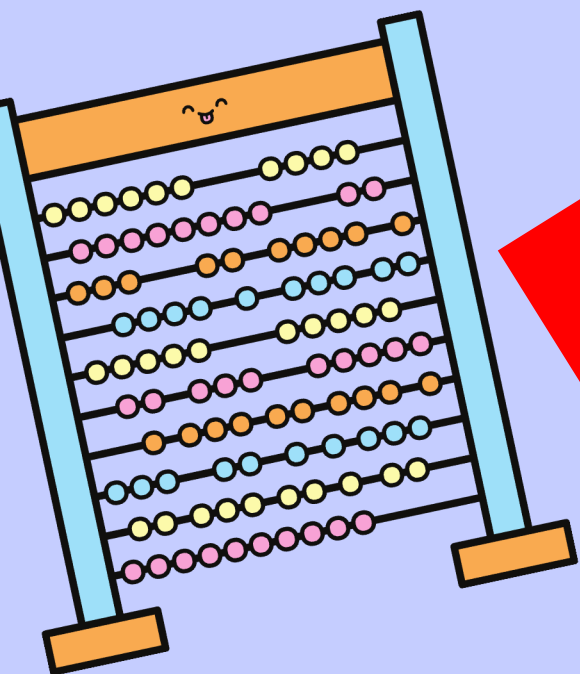
Can you:

- name the eight familiar 2D shapes?
- describe their edges, boundaries and corners?
- compare two shapes?
- sort shapes by a feature?

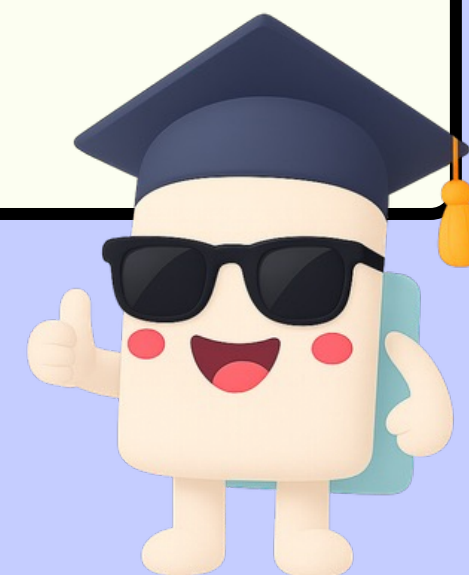
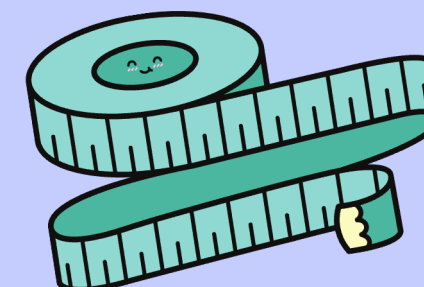
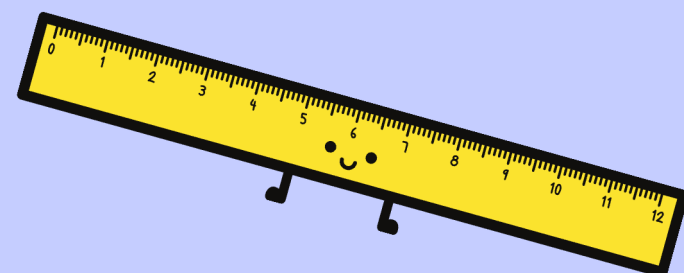




Well Done!



PREVIEW



Features of 2D Shapes Quiz



Question 1 – True or False?

circle has no corners.



Answer 1

True
A circle has one continuous curved boundary and no corners.



Question 2 – Short Answer

How many corners does a triangle have?



Answer 2

PREVIEW

3 corners.



Question 3 – Multiple Choice

Which shape has 4 equal straight edges and 4 corners?

A. square

B. circle

C. triangle

D. oval



Answer 3

A — square.

A square has 4 equal straight edges and 4 corners.



Question 4 – True or False

A rectangle has 4 corners.



Answer 4

A rectangle has 4 straight edges and 4 corners.



Question 5 – Short Answer

Name the shape with 3 straight edges.



Answer 5

Pentagon.

A pentagon has 5 straight edges and 5 corners.



Question 6 – Multiple Choice

Which shape has one continuous curve about its boundary and no straight edges?

- A. circle
- B. square
- C. pentagon
- D. triangle



Answer 6

A circle.

A circle has one continuous curved boundary and no corners.



Question 7 – True or False?

Turning a triangle changes it into a different shape.



Answer 7

For 2.

Its defining features stay the same when it is turned.



Question 8 – Short Answer

How many edges does a hexagon have?



Answer 8

PREVIEW

6 edges.



Question 9 – Multiple Choice

Which shape has 8 straight edges?

A. pentagon

B. hexagon

C. octagon

D. oval



Answer 9

C – octagon.

An octagon has 8 straight edges and 8 corners.



Question 10 – Multiple Choice

Which pair both have straight sides?

A. square and rectangle

B. circle and oval

C. triangle and pentagon

D. hexagon and octagon

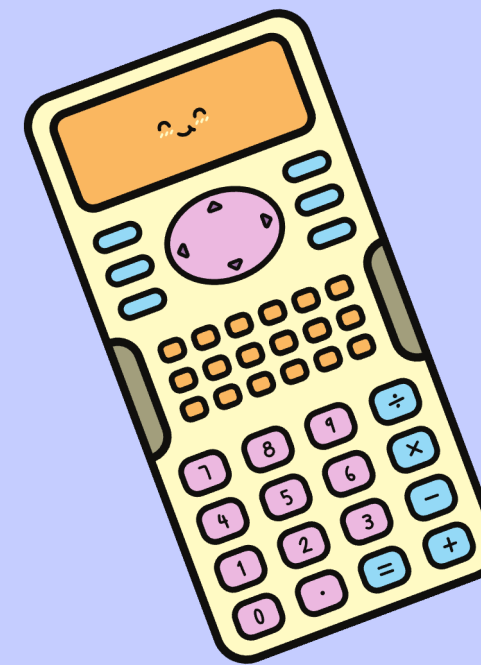
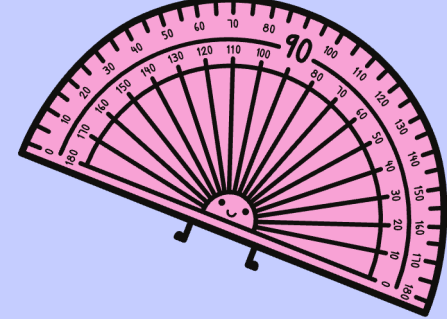
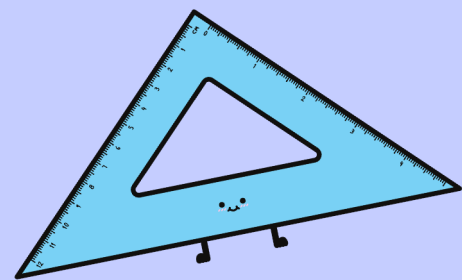
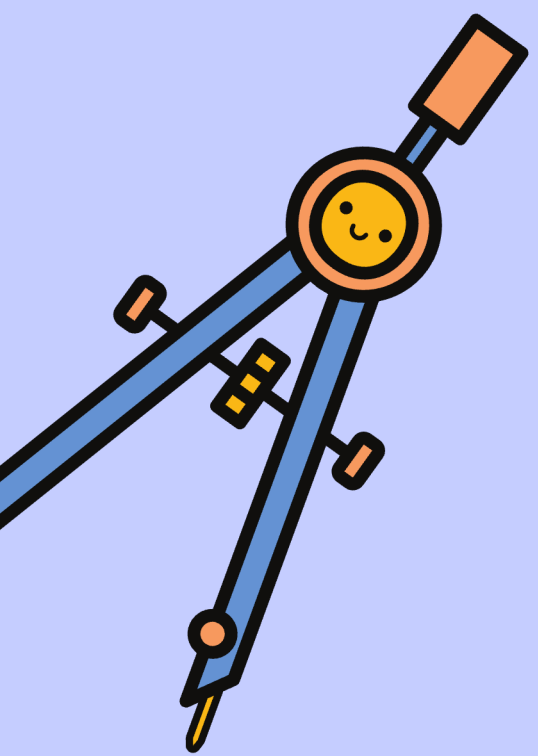


Answer 10

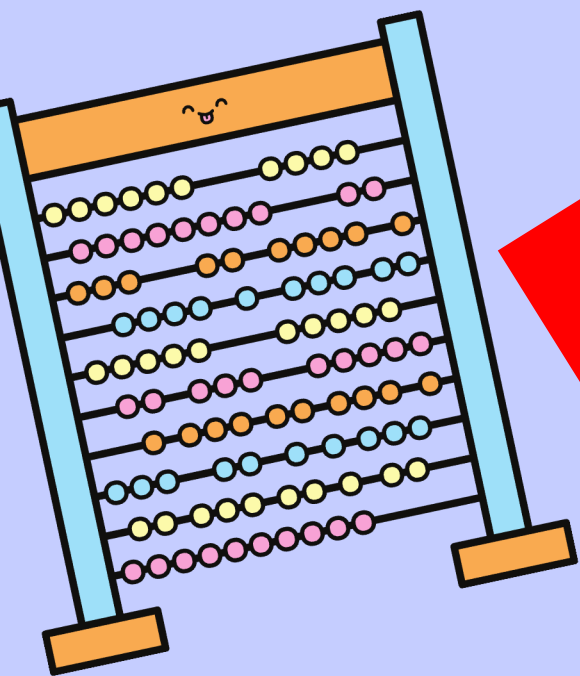
A square or a rectangle.

Both shapes have 4 straight edges and 4 corners.





Well Done!



PREVIEW

