

Study the following.

quadrilateral (kwahd-ruh-**lat**-ur-uhl) – a polygon with four sides.

square (**skwair**) – a polygon with all four sides the same length, and four right angles

rectangle (**rek**-tang-guhl) – a polygon with four right angles . Also, each pair of opposite sides will be the same length.

rhombus (**rom**-buhss) – a polygon with all four sides the same length

trapezoid (**trap**-uh-zoid) – a 4 sided polygon with one pair of opposite sides parallel.

parallelogram (pa-ruh-**lel**-uh-gram) – a 4 sided polygon with two pairs of opposite sides parallel. Also each pair of opposite sides will be the same length.

Say each word out loud and write it in the blank.

quadrilateral _____

square _____

rectangle _____

rhombus _____

trapezoid _____

parallelogram _____

Write each definition in your own words.

quadrilateral

square

rectangle

rhombus

trapezoid

parallelogram

Write one sentence using each word.

quadrilateral

1.

square

1.

rectangle

1.

rhombus

1.

trapezoid

1.

parallelogram

1.

Matching.

quadrilateral

a polygon with four right angles

square

a 4 sided polygon with one pair of opposite sides parallel

rectangle

a polygon with all four sides the same length, and four right angles

rhombus

trapezoid

a 4 sided polygon with two pairs of opposite sides parallel

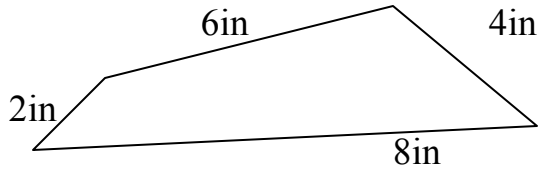
parallelogram

a polygon with four sides

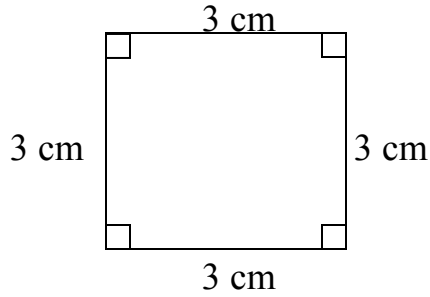
a polygon with all four sides the same length

Study these examples.

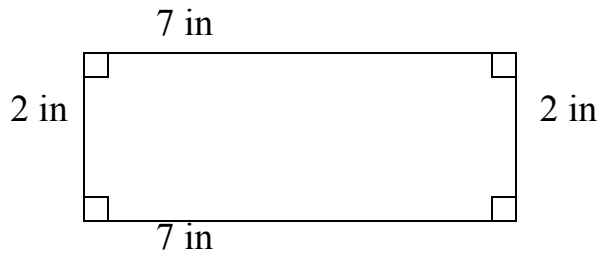
quadrilateral



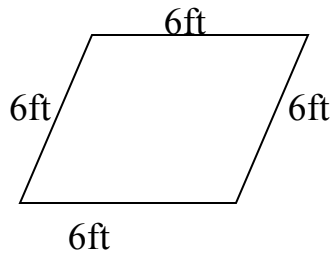
square



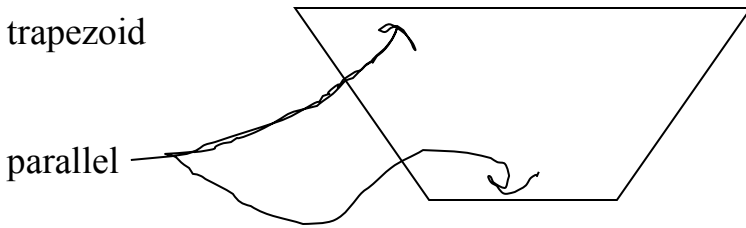
rectangle



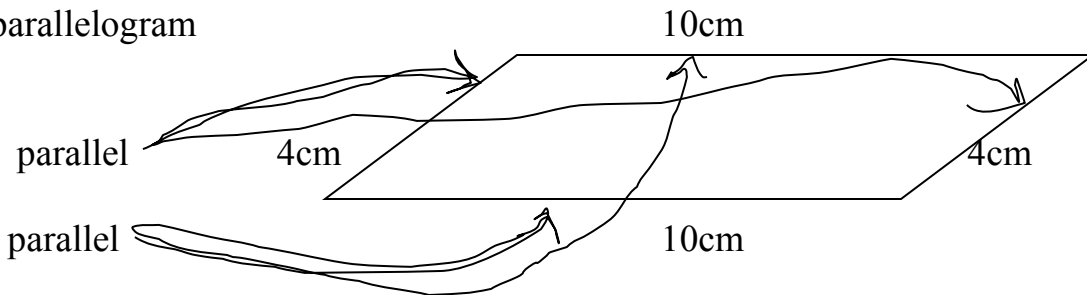
rhombus



trapezoid



parallelogram



Draw and label two examples of each.

quadrilateral

square

rectangle

rhombus

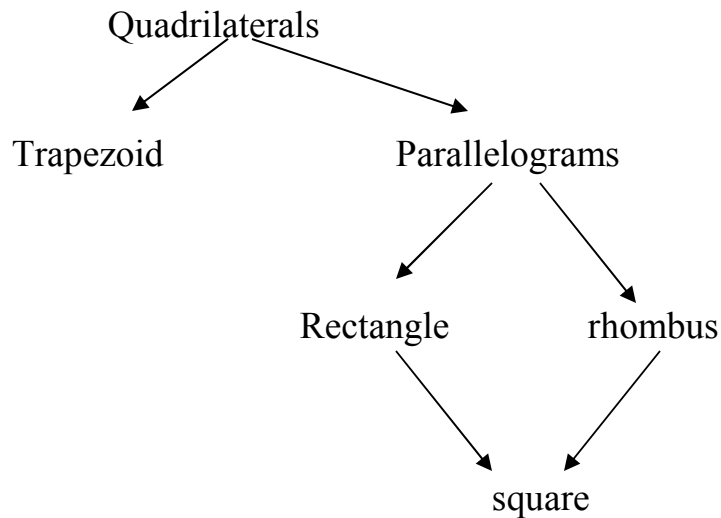
trapezoid

parallelogram

Study the following.

Some of the four-sided shapes can be called more than one thing.

Use the following diagram to see all the names certain shapes can be called.



The diagram shows a square is also a rhombus, rectangle, parallelogram, and quadrilateral.

A rectangle is also a parallelogram and a quadrilateral.

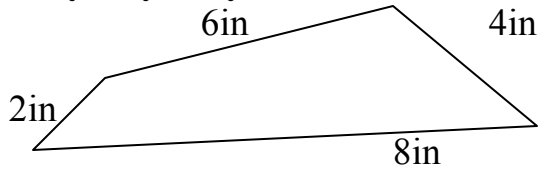
A rhombus is also a parallelogram and a quadrilateral.

A trapezoid is also a quadrilateral.

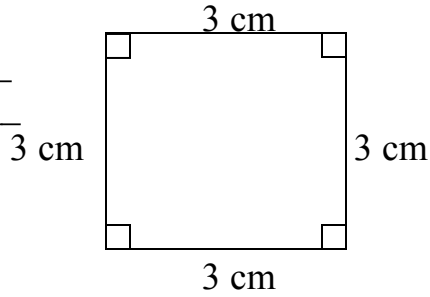
A parallelogram is also a quadrilateral.

Name each figure in as many ways as you can.

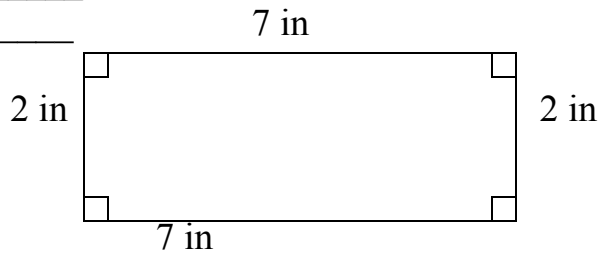
1. _____



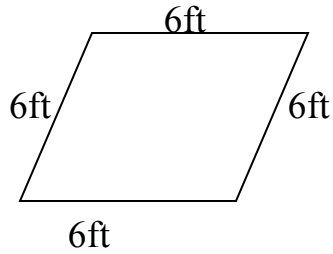
2. _____



3. _____

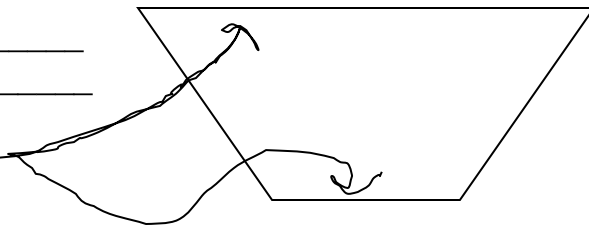


4. _____



5. _____

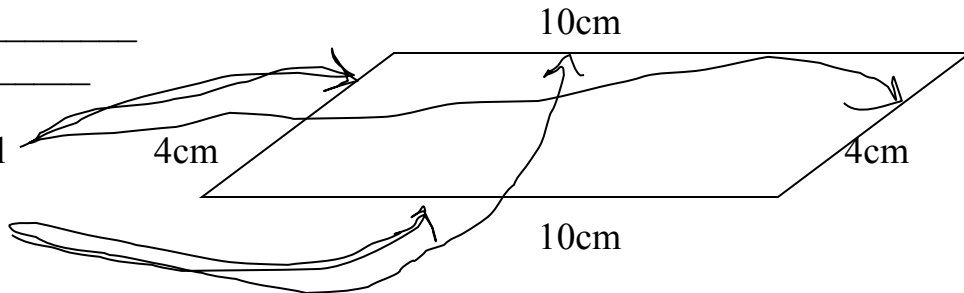
parallel



6. _____

parallel

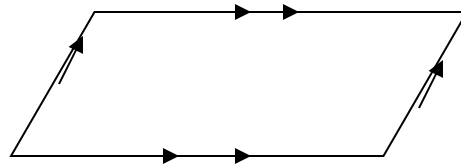
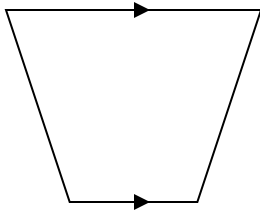
parallel



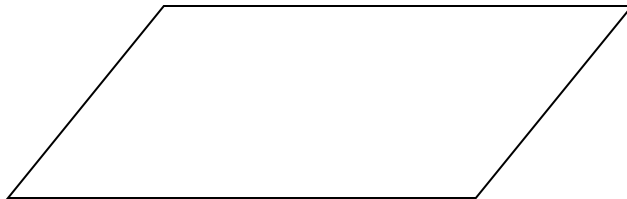
Study the following.

A set of single arrowheads or a set of double arrowheads shows which pairs of lines are parallel.

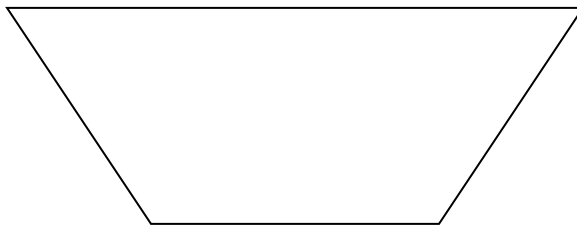
Examples:



Label this parallelogram with arrowheads.



Label this trapezoid with arrowheads.

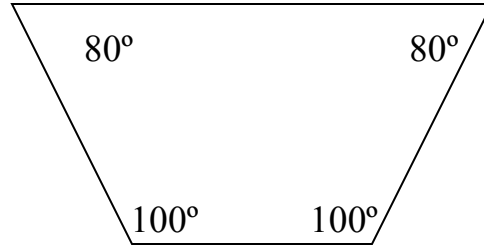


Study the following.

There are a total of 360 degrees in a quadrilateral.

Example:

$$80^\circ + 100^\circ + 80^\circ + 100^\circ = 360^\circ$$



Draw three examples of quadrilaterals with the total degrees adding up to 360.

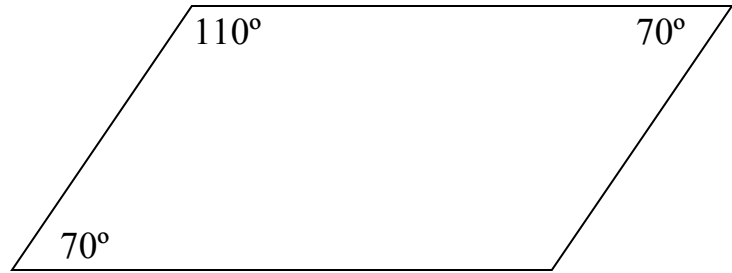
1.

2.

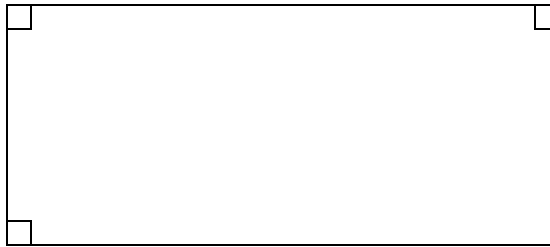
3.

**Fill in the degrees for the missing angle.
(Add up the three angles, and subtract from 360.)**

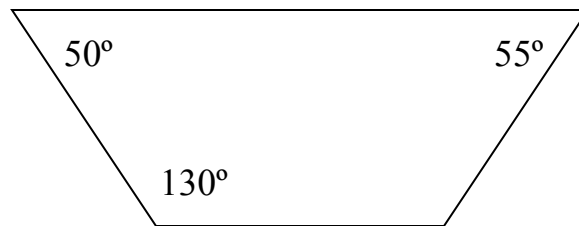
1. _____



2. _____



3. _____



4. _____

