Quadrilateral Day!
• Today's words: quadrilateral, parallelogram, trapezoid, trapezium, rectangle, rhombus, square, kite

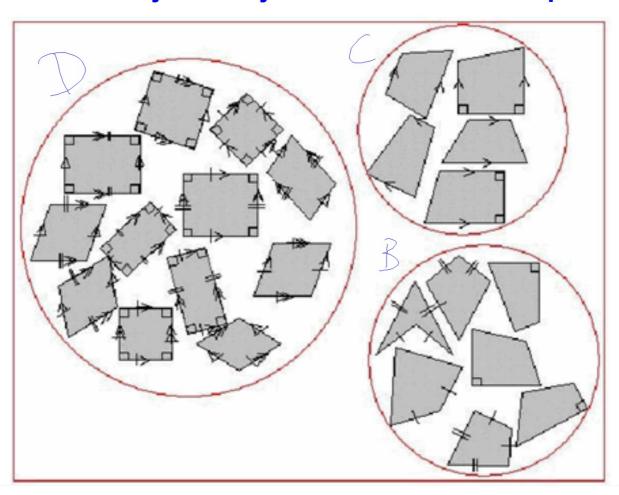
Vocabulary Notecard #		
Word	Definition	
Chord	Any Segment from One side of a circle forthe other, NOI necessarily through center	
© Diagram	Real World Example	
	parm ch2 lid	

	Vocabulary Notecard # 47		
A	Word	Definition	
	Sector	Section of a circle coming from center	
C	Diagram	Real World Example	
		Picce of pie/pizza	

	Vocabulary Notecard # 45	
A	Word	B Definition
	Quadrilateral L SIAS	A polygon with 4 Sides
C	Diagram	Real World Example
		Squares rectangles rhombus trapezoid etc.



How would you classify these three families of shapes?



	Vocabulary Notecard #		
A	Word	Definition	
	Parallelogram	Agual, with 2 pairs of parallel Sides	
C	Diagram	Real World Example	
		Craser	

Vocabulary Notecard # 50		
Word	Definition	
Trapezoid	A quad with DNE Pair of Parallel Sides	
Diagram	Real World Example	
	library tables Picture frame parts	

Vocabulary Notecard # 5		
Word	Definition	
Trapezium	Aguad with ND parallel sides	
Diagram	Real World Example	

	Vocabulary Notecard # 52		
A	Word	B Definition	
	K'1+C	A quad with 2 pairs Of adjacent congruent Sides (attached) (convex - angles Dut)	
C	Diagram	Real World Example	
		Kit	

	Vocabulary Notecard # 53		
A	Word	Definition	
	Orrow	A quad. with 2 pairs of adjacent congruent Sides (concave - IN)	
C	Diagram	Real World Example	
		arrow boomerang	

Vocabulary Notecard #		
Word	Definition	
Rectangle (equiangular)	A parallelogram with 4 right angles	
Diagram	Real World Example	
	Paper notecards TV screnos	

Vocabulary Notecard # 55		
Word	Definition	
Rhombus (eguilateral)	A parallelogram with 4 congruent Sides	
Diagram	Real World Example	
	Libertond on cards	

	Vocabulary Notecard # 🔂		
A	Word	B Definition	
	Square	A parallelogram with Hrightangles AND H congrnent Sides	
C	Diagram	Real World Example	
		Geoboard	

Vocabulary Notecard #							
A	Word	B	Definition				
C	Diagram	D	Real World Example				

Classifying Quadrilaterals

8.5

Name			
ranne	 		

Below is a list of different types of quadrilaterals. Some you may be familiar with and others will be new to you.

Parallelograms

Trapezoids

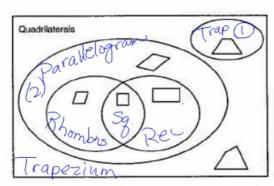
Rhombuses

Rectangles

Squares

The Venn diagram below can be used to classify these quadrilaterals. Use each type of quadrilateral once and fill in the Venn diagram. If you are unfamiliar with the characteristics of a certain type, you will need to do some research first.





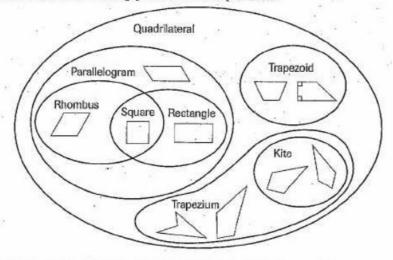
Fill in the blanks.

- 1. Parallelograms are special types of
- 2. Squares are special types of
- 3. Rectangles are special types of

a D. C. Heath and Company

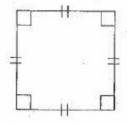
Quadrilaterals

Use the illustration below to help you answer the questions.



Use the diagram at the right to answer questions 1-6. Circle true or false.

- 1. The figure is a trapezoid.
- true false
- 2. The figure is a parallelogram.
- true false
- 3. The figure is a rhombus.
- true false
- 4. The figure is a trapezium.
- true false
- 5. The figure is a rectangle.
- true false
- 6. The figure is a square.
- true false



Use the diagram at the right to answer questions 7-13. Circle true or false.

- 7. The figure is not a trapezoid.
- true false
- 8. The figure is a parallelogram.
- true
- 9. The figure is a rhombus.
- 7
- true false
- 10. The figure is not a rectangle.
- true
- false

false

- 11. The figure is a square.
- true
- false
- 12. The figure is a trapezium.
- true
- falsè

- 13. The figure is a kite.
- true
- false



14. If a quadrilateral has at least one pair of parallel sides, it could be a trapezoid kite trapezium parallelogram rectangle rhombus

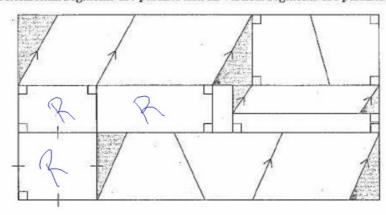
Circle the phrase that completes the sentence correctly for each figure.

A quadrilateral with both pairs of opposite sides parallel-

- 15. is always may be is never a trapezoid.
- 16. is always may be is never a trapezium.
- 17. is always may be is never a rectangle.
- 18. is always may be is never a parallelogram.
- 19. is always may be is never a kite.
- 20. is always may be is never a rhombus.
- 21. is always may be is never a square.

Use the drawing below to answer question 22–25.

Assume all horizontal segments are parallel and all vertical segments are parallel.



- 22. Label all trapezoids T.
- 23. Label all parallelograms P.
- 24. Label all squares S.
- 25. Label all rectangles R.

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Section 2-4 Classifying Quadrilaterals







rectangle









isosceles trapezoid

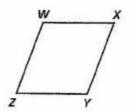
Example

Judging by appearance, name WXYZ in as many ways as possible.

It is a quadrilateral because it has four sides.

It is a parallelogram because both pairs of opposite sides are parallel.

It is a rhombus because it has four congruent sides.



Activity

Use a protractor and a straightedge to sketch an example of each quadrilateral. Then name it in as many ways as possible.

- 1. a quadrilateral with exactly one pair of parallel sides
- 2. a quadrilateral with opposite sides parallel
- 3. a quadrilateral with four right angles.
- 4. a quadrilateral with four congruent sides

Classify each quadrilateral by its mo	ost precise name.
1	6.
	6)
	8.
	8)
udging by appearance, name each	quadrilateral in as many ways as possible.
	9)
0.	10)
	11)
2.	12)
	79