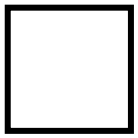
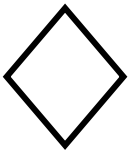
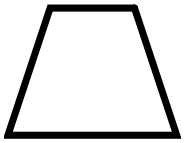
Skill 4-19E: Classify Quadrilaterals

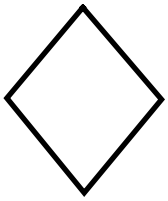
A quadrilateral is a polygon with 4 sides and 4 angles.

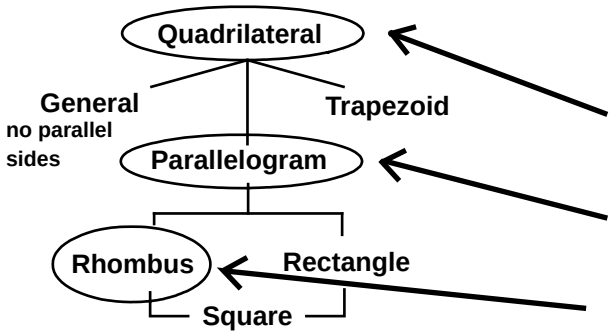
Rectangle	Square	Rhombus	Parallelogram	Trapezoid
4 sides and 4 right angles. Opposite sides are equal and parallel	4 equal length sides and 4 right angles. 2 pairs of parallel sides.	4 equal length sides. 2 pairs of parallel sides.	2 pairs of parallel sides. Opposite sides are equal lengths.	1 pair of parallel sides.
				

Example

Classify this figure in as many ways as possible.

Circle each classification.





It is a quadrilateral - 4 sides - 4 angles.

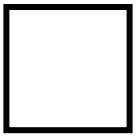
It is a parallelogram - 2 pairs of parallel sides.

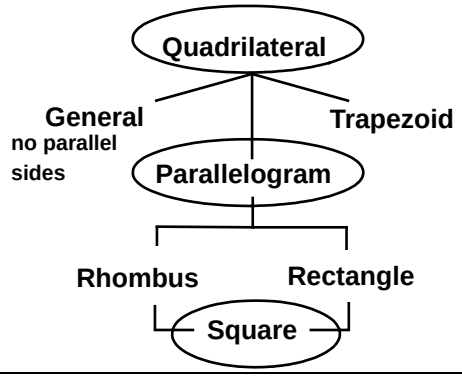
It is a rhombus - 4 equal length sides and 2 pairs of parallel sides.

Answer: quadrilateral, parallelogram, rhombus

Directions: Classify each quadrilateral in as many ways as possible by circling each classification. The first one is done for you. Begin on number 2.

1.





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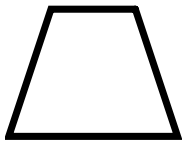

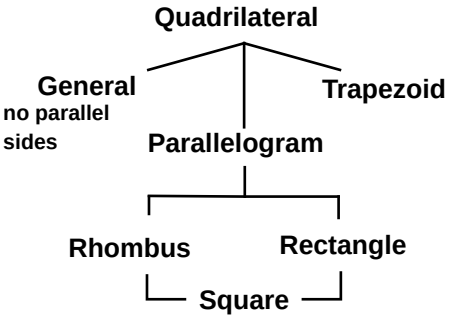

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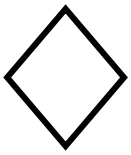
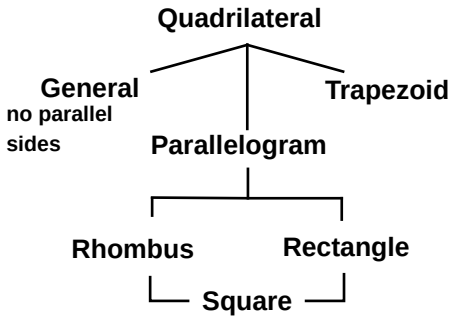
Skill 4-19E: Geometric Figures

Classify Quadrilaterals

Directions: Classify each quadrilateral in as many ways as possible by circling each classification. The first one is done for you. Begin on number 2.

3.





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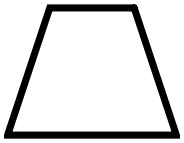

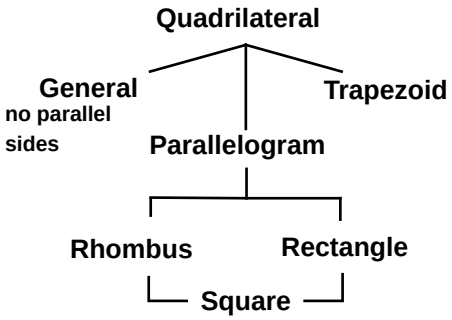

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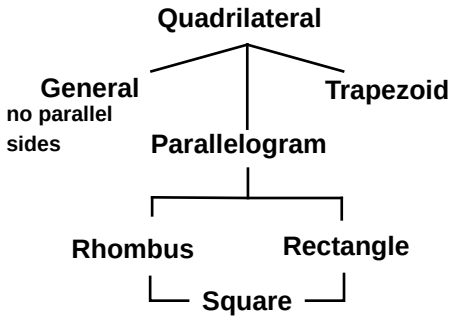

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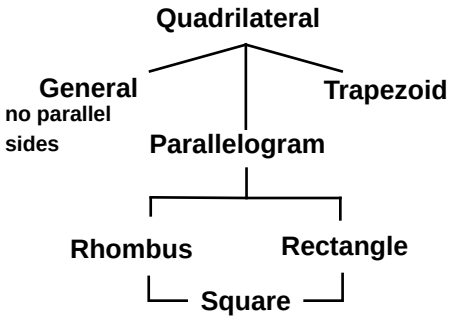

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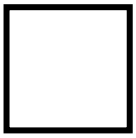

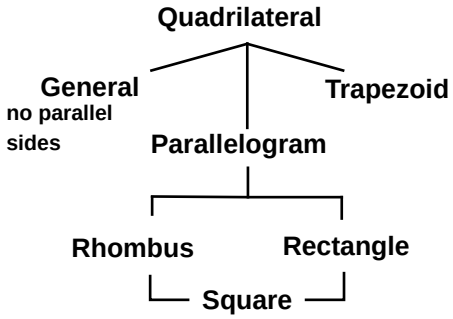

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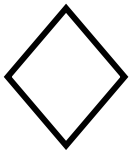

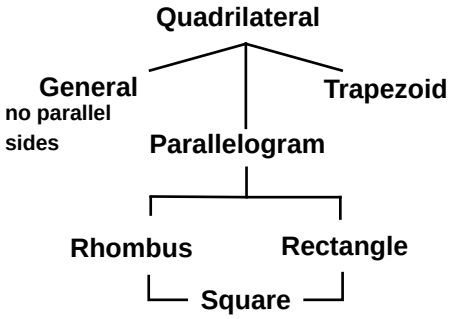

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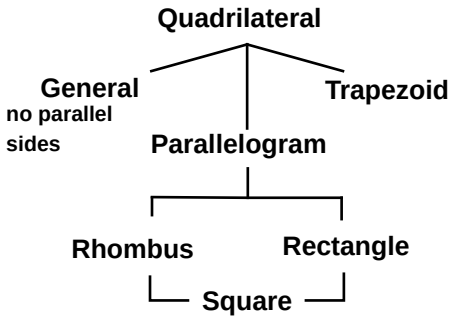
Skill 4-19E: Geometric Figures

Classify Quadrilaterals

Directions: Classify each quadrilateral in as many ways as possible by circling each classification.

9.



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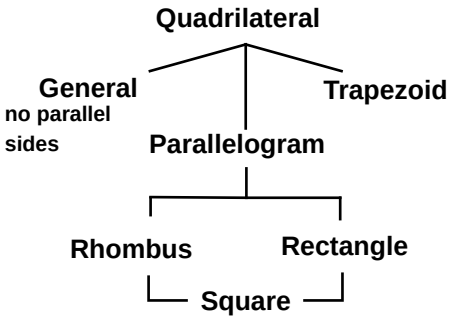

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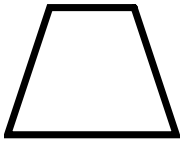

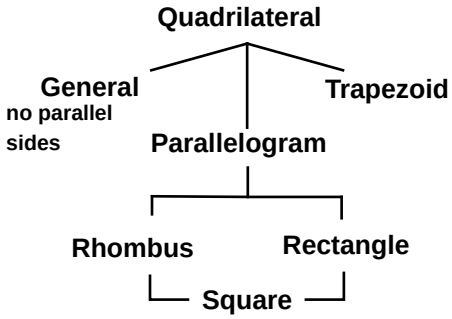

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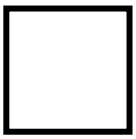

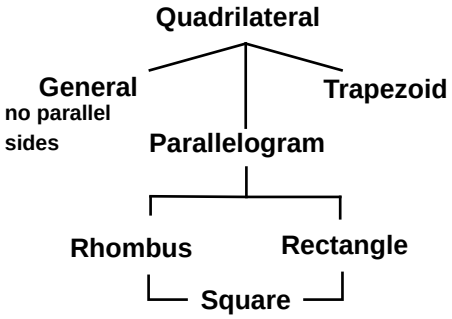

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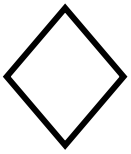

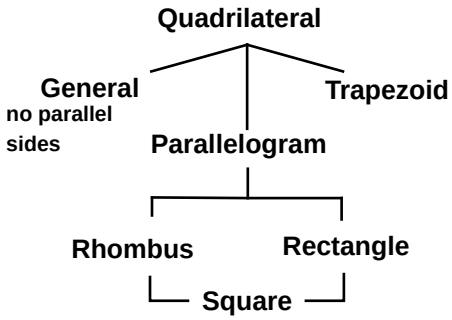

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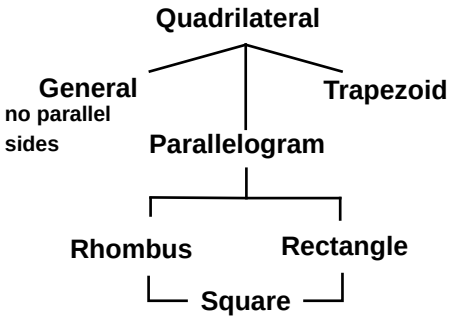

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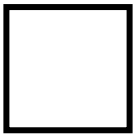
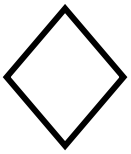
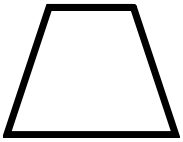
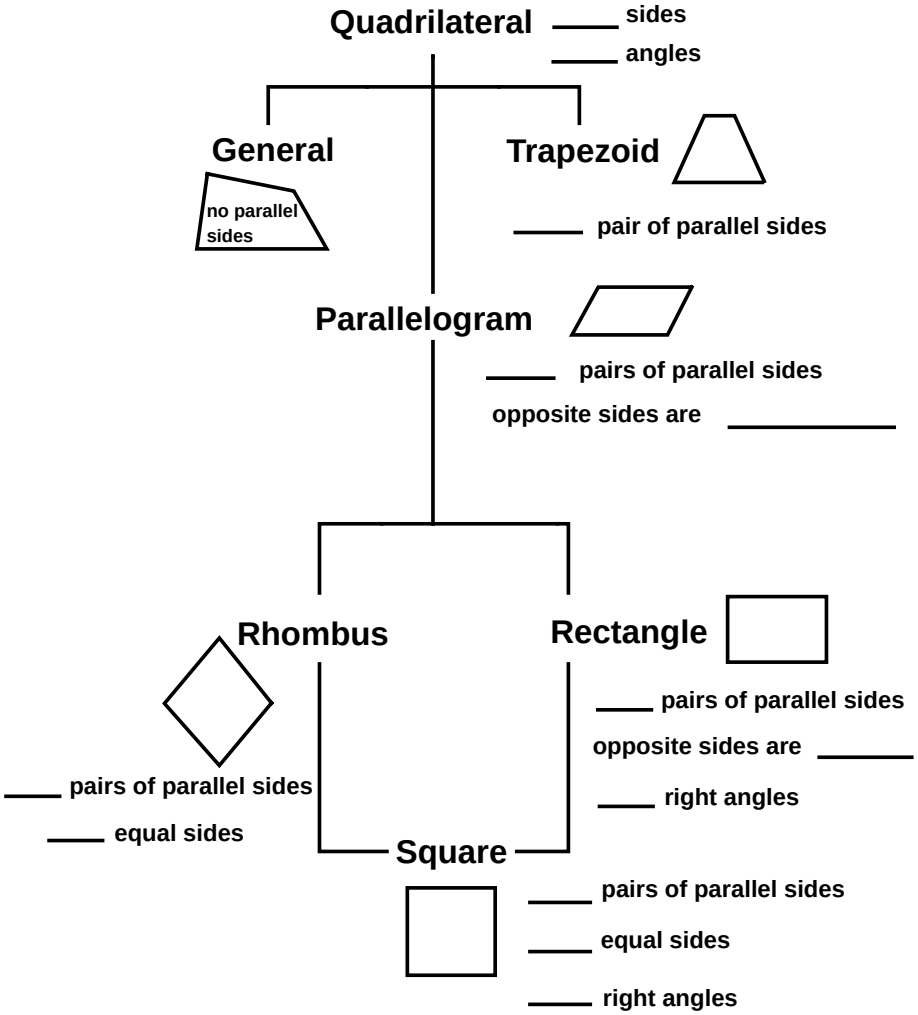
Skill 4-19E: Geometric Figures

Classify Quadrilaterals

Directions: Write on the blank lines on the diagram at the bottom of this page to complete the description of each quadrilateral.

Rectangle	Square	Rhombus	Parallelogram	Trapezoid
				
2 pairs of parallel sides opposites sides are equal 4 right angles	2 pairs of parallel sides 4 equal sides 4 right angles	2 pairs of parallel sides 4 equal sides	2 pairs of parallel sides opposite sides are equal	1 pair of parallel sides



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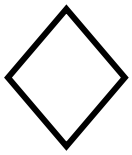
Skill 4-19E: Geometric Figures

Classify Quadrilaterals

Directions: Write the missing description on the line. Look at the similarities and differences as you compare two quadrilaterals in each problem. Use the table on page 4.

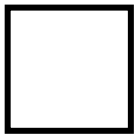
15.

rhombus



4 equal sides
2 pairs of parallel sides

square

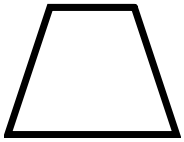


4 equal sides
2 pairs of parallel sides

_____

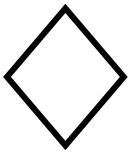
16.

trapezoid



1 pair of parallel sides

rhombus



2 pairs of parallel sides

_____

17.

parallelogram

2 pairs of parallel sides
opposite sides are equal

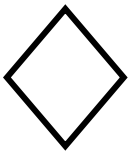
rectangle

2 pairs of parallel sides
opposite sides are equal

_____

18.

rhombus



2 pairs of parallel sides
4 equal sides

parallelogram

2 pairs of parallel sides

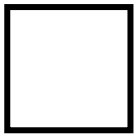
_____

19.

rectangle

2 pairs of parallel sides
4 right angles
opposite sides are equal

square



2 pairs of parallel sides
4 right angles

_____

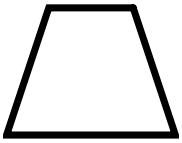
20.

parallelogram

2 pairs of parallel sides

_____

trapezoid



1 pair of parallel sides

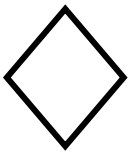
21.

square

4 equal sides
2 pairs of parallel sides

_____

rhombus



4 equal sides
2 pairs of parallel sides

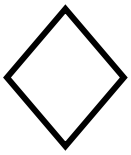
22.

rectangle

2 pairs of parallel sides
opposite sides are equal

_____

rhombus



2 pairs of parallel sides
4 equal sides

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Skill 4-19E: Geometric Figures

Classify Quadrilaterals

Directions: Directions: Draw a quadrilateral that matches each description below. Then write the name of the quadrilateral. Use the table on page 4.

23. 4 equal length sides. 2 pairs of parallel sides. No right angles.	24. 1 pair of parallel sides.
25. 2 pairs of parallel sides. opposite sides are equal. no right angles	26. 2 pairs of parallel sides 4 equal length sides 4 right angles
27. 1 pair of parallel sides.	28. 2 pairs of parallel sides. opposite sides are equal. no right angles
29. 2 pairs of parallel sides 4 equal length sides 4 right angles	30. 2 pairs of parallel sides opposite sides are equal 4 right angles

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Answer Key 4 - 19E

Note: Every square is a rectangle but this is not shown in the answer sheet.

1. is an example - square, parallelogram, quadrilateral,

2. trapezoid, quadrilateral

page 2

3. rhombus, parallelogram, quadrilateral

4. trapezoid, quadrilateral

5. parallelogram, quadrilateral

6. rectangle, parallelogram, quadrilateral

7. square, parallelogram, quadrilateral

8. rhombus, parallelogram, quadrilateral

page 3

9. parallelogram, quadrilateral

10. rectangle, parallelogram, quadrilateral

11. trapezoid, quadrilateral

12. square, parallelogram, quadrilateral

13. rhombus, parallelogram, quadrilateral

14. rectangle, parallelogram, quadrilateral

page 4 -fill in the blank diagram

quadrilateral - 4 sides - 4 angles

trapezoid - 1 pair of parallel lines

parallelogram - 2 pairs of parallel sides - opposite sides are equal

rhombus - 2 pairs of parallel sides - 4 equal sides

rectangle - 2 pairs of parallel sides - opposite sides are equal - 4 right angles

square - 2 pairs of parallel sides - 4 equal sides - 4 right angles

page 5

15. 4 right angles

16. 4 equal sides

17. 4 right angles

18. opposite sides are equal

19. 4 equal sides

20. opposite sides are equal

21. 4 right angles

22. 4 right angles

page 6

23. rhombus

24. trapezoid

25. parallelogram

26. square

27. trapezoid

28. parallelogram

29. square

30. rectangle

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