

28. Hierarchical Classification of Quadrilaterals

a)

Quadrilateral

Closed shape with 4 sides

Parallelogram

+ **Both pairs of opposite sides parallel**

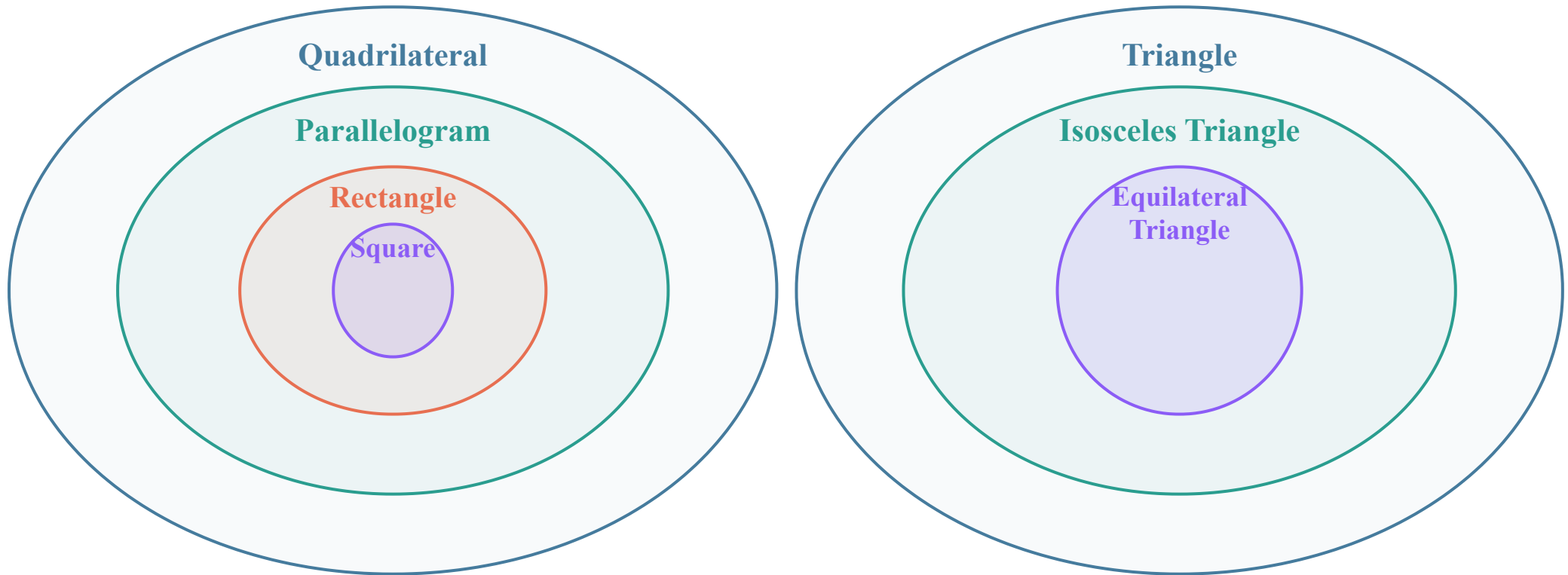
Rectangle

+ **All 4 angles are right angles**

Square

+ **All 4 sides equal**

Venn diagram (small circle inside big circle):



Triangle

Closed shape with 3 sides

Isosceles Triangle

+ **2 sides equal**

Equilateral Triangle

+ **3条边都相等** (三个角都是 60°)

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b) Is a square a parallelogram? **Yes / No**

c) Is a trapezoid a parallelogram? **Yes / No**

d) Is a rectangle a square? **Yes / No**

e) Is an isosceles triangle always equilateral? **Yes / No**

f) Is a parallelogram always a rectangle? **Yes / No**