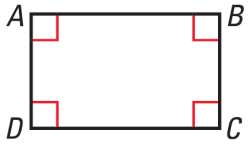
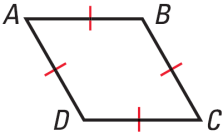
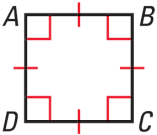
Geometry

8.4 Properties of Rhombuses, Rectangles, and Squares

# Parallelograms

* Rhombus

sides

* + Four \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Rectangle

Right s

* + Four \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Square

Square

Rectangle

Rectangle

Rhombus

Rhombus

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

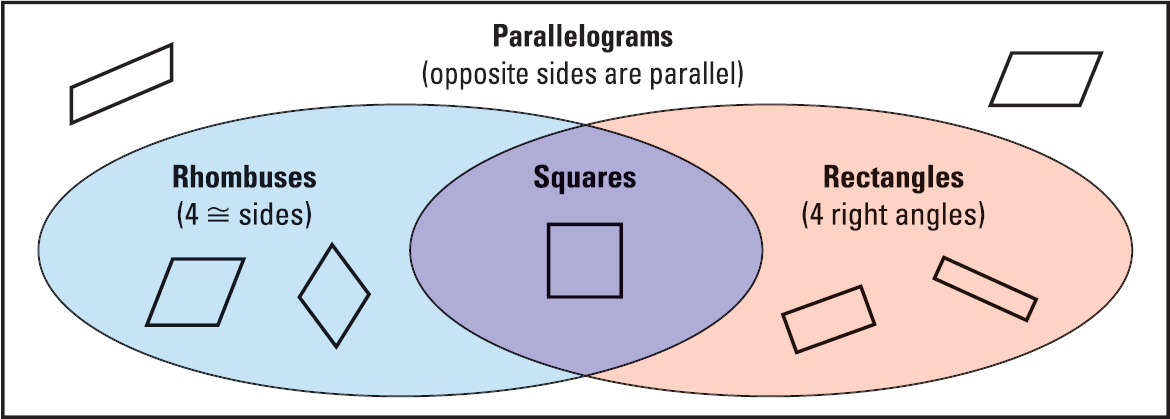
* + \_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_

sides

* + Four \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Right s

* + Four \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



For any rectangle EFGH, is it always or sometimes true that ?

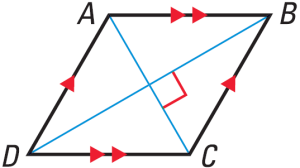
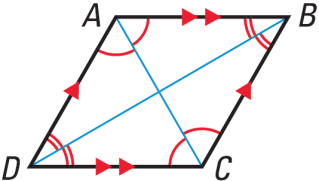
Sometimes, and are consecutive sides, not opposite

A quadrilateral has four congruent sides and angles. Classify the figure.

Square; each angle is and all sides

# Diagonals

perpendicular

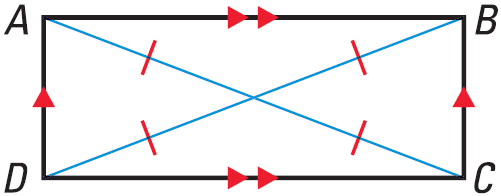
Rhombus: diagonals are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

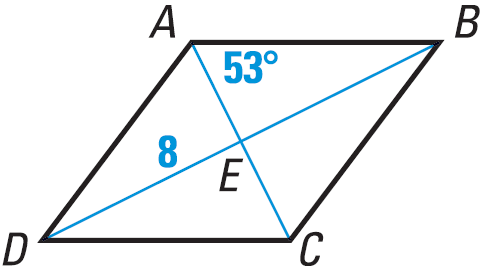
Opposite angles

Rhombus: diagonals bisect \_\_\_\_\_\_\_\_\_\_\_\_\_\_

congruent

Rectangle: diagonals are \_\_\_\_\_\_\_\_\_\_\_\_\_



ABCD is a rhombus

Find mAED

Diagonals are perpendicular: mAED = 90°

Find DB

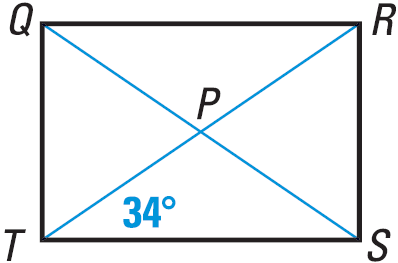
Diagonals bisect each other: DE = EB = 8

DE + EB = DB = 16

Find AC

Right triangle AEB is formed with EB = 8

Use

QRST is a rectangle with QS = 10

Find mQPR

Find RP

Diangonals are congruent and bisect each other

Find RS

RT = 10

mRTS = 34°

Assignment: 537 #2-52 even, 60-70 even = 32

Extra Credit: 540 #2, 5 = +2