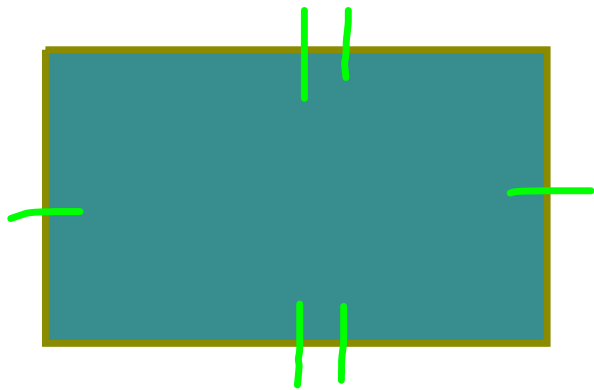
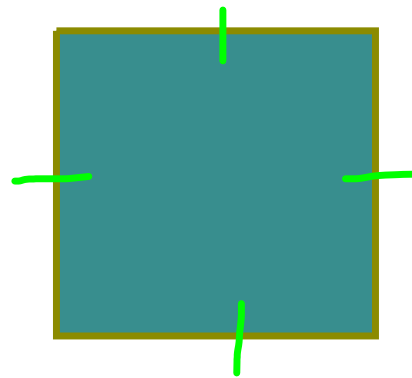


How to create  
a square from  
a non-square  
rectangle =



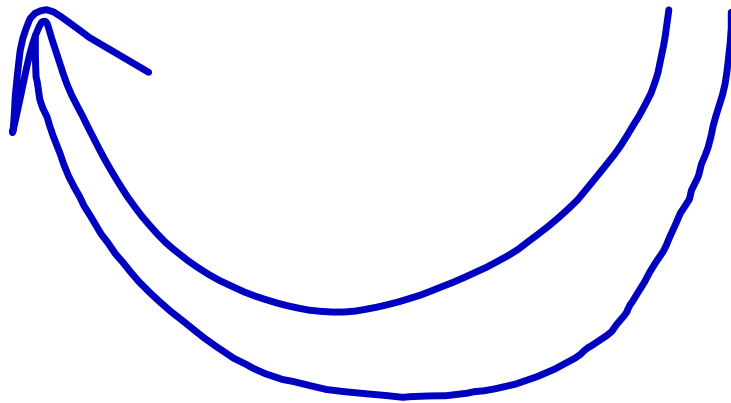
polygon  
quadrilateral  
parallelogram  
rectangle



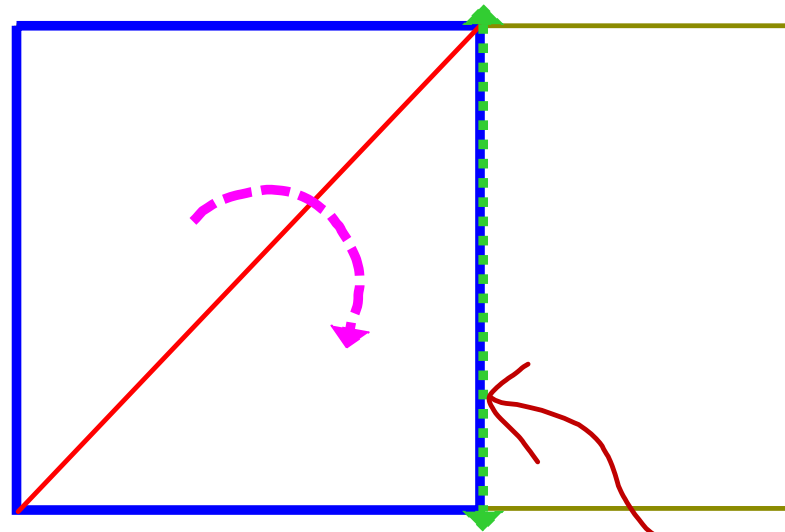
polygon  
quadrilateral  
parallelogram  
rectangle  
rhombus  
square

1 ← marks  
mean that  
the sides  
are equal

11 ← same  
thing, but  
it is equal  
to other  
side  
with 11  
mark



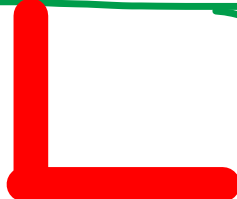
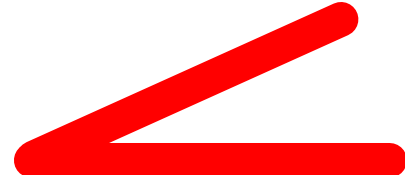


could  
we  
super-  
impose  
the square  
onto the  
rectangle?  
square



Fold &  
cut the  
paper  
on the  
dotted  
line.

\* Fold the rectangle along  
the red line (diagonal)  
to match the short  
side with the same  
distance on the long side.

# Name that angle

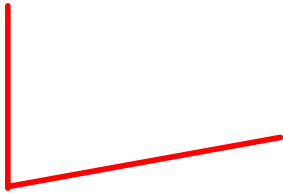
<u>angle</u>	<u>measurement</u>	<u>drawing</u>
Right	$90^\circ$	
Acute	$0^\circ < \text{angle} < 90^\circ$	
Obtuse	$90^\circ < \text{angle} < 180^\circ$	
Straight	$180^\circ$	

Are these angles right,  
acute, obtuse, or straight?  
(key)

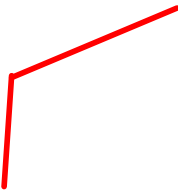
---



acute



acute



obtuse



straight



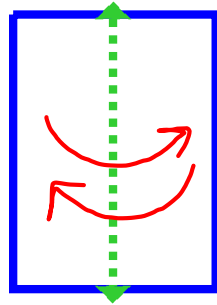
right

Make paper airplanes  
and name the angles  
and polygons as you  
go.

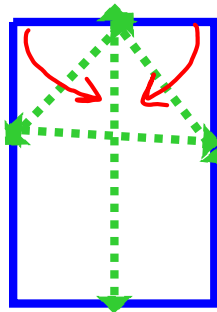
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Nakamura Lock by an  
unknown genius

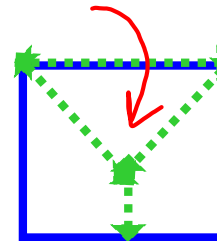
see design next page



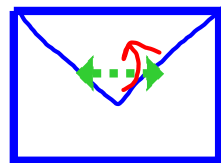
**Step 1** Fold in  
half the longway  
and unfold



**Step 2** make a  
pentagon by folding  
diagonals; forms a  
right angle at top

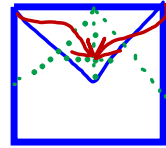


**Step 3** Fold down along  
horizontal line



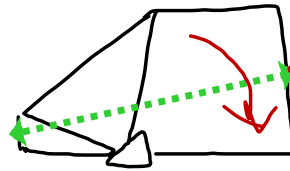
**Step 4** Fold small  
triangle up and unfold

(next page)



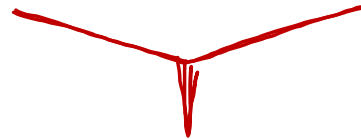
**Step 5** Fold top corners into point made by fold in **Step 4**

**Step 6** Fold small triangle from **step 4** back up and bend backward



**Step 7** create midpoint by folding in half, and fold wings along green line.

\* the back of your plane should form an obtuse angle



\* you are ready to fly

Are these angles right,  
acute, obtuse, or straight?

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