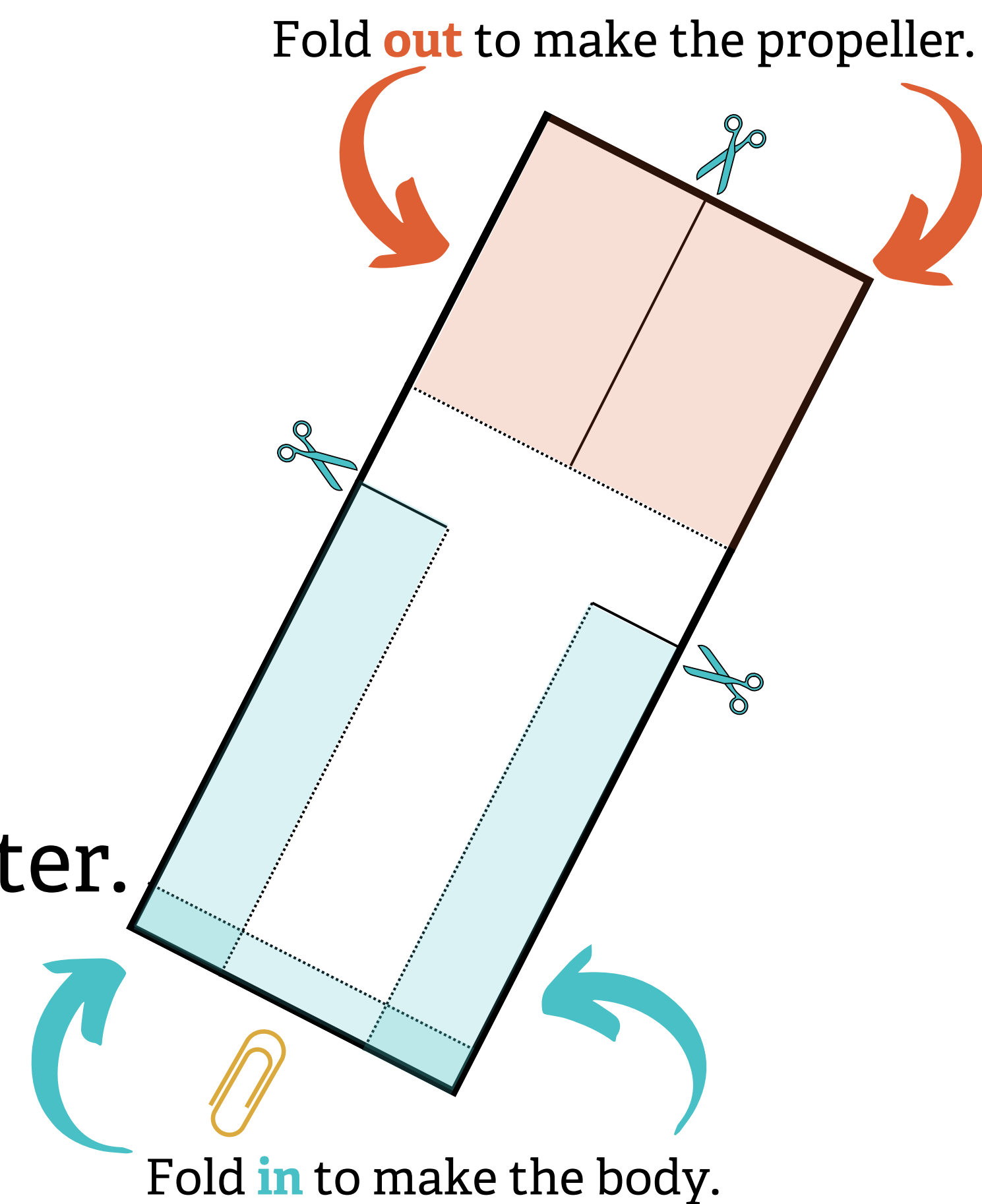


# Paper Helicopters



## How to make the helicopter

1. Cut around the outside of the helicopter.
2. Cut on the **solid** lines.
3. Fold on the **dotted** lines.
4. Add a paper clip to the bottom of the helicopter.
5. Drop the helicopter and watch how it falls.



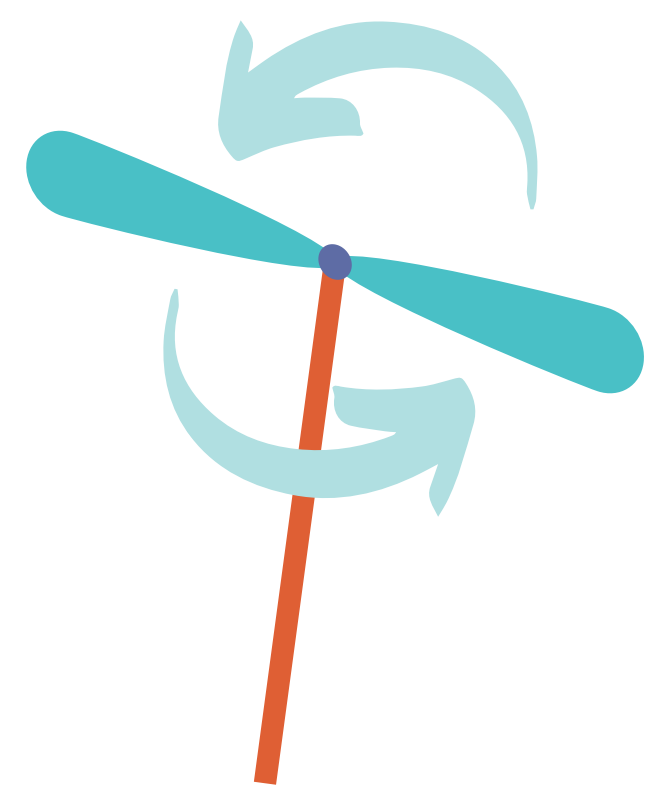
## Why does the helicopter fall so slowly?

When you drop the helicopter, two things happen:

**Gravity** pulls the helicopter down.

**Air Resistance** pushes the propellers up.

These two forces work against each other, causing the helicopter to fall slowly through the air.



## Questions to explore:

What happens if you add more paper clips to the bottom of the helicopter?

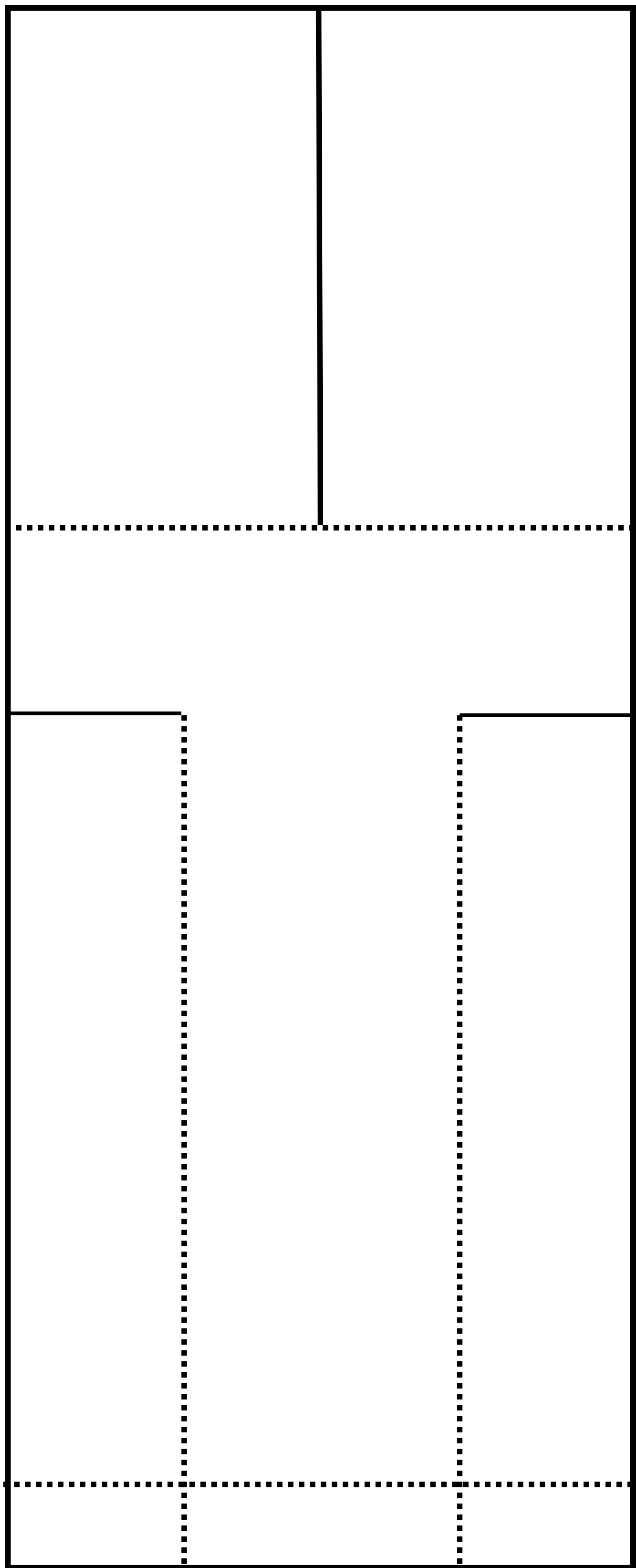
What happens if you take the paper clip off?

What happens if you make the propeller longer?

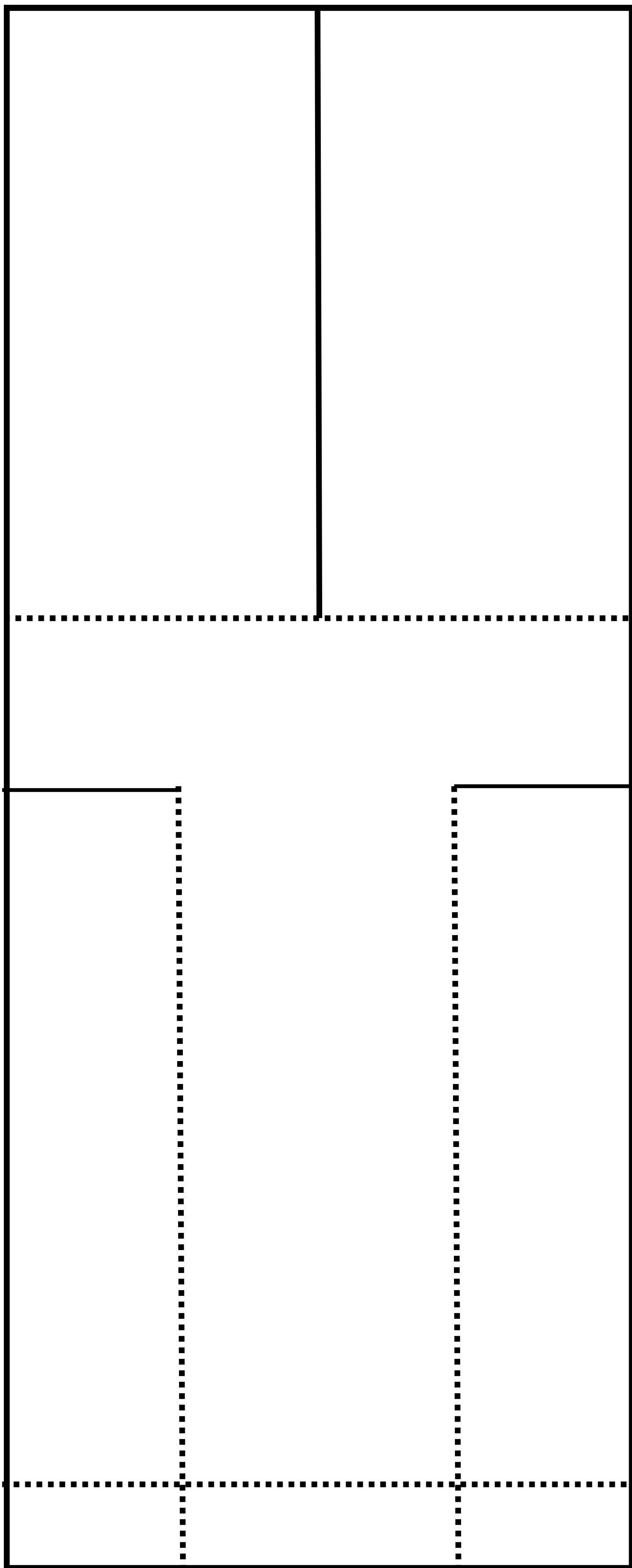
What happens if you make the propeller shorter?

What happens if you change the shape of the propeller?

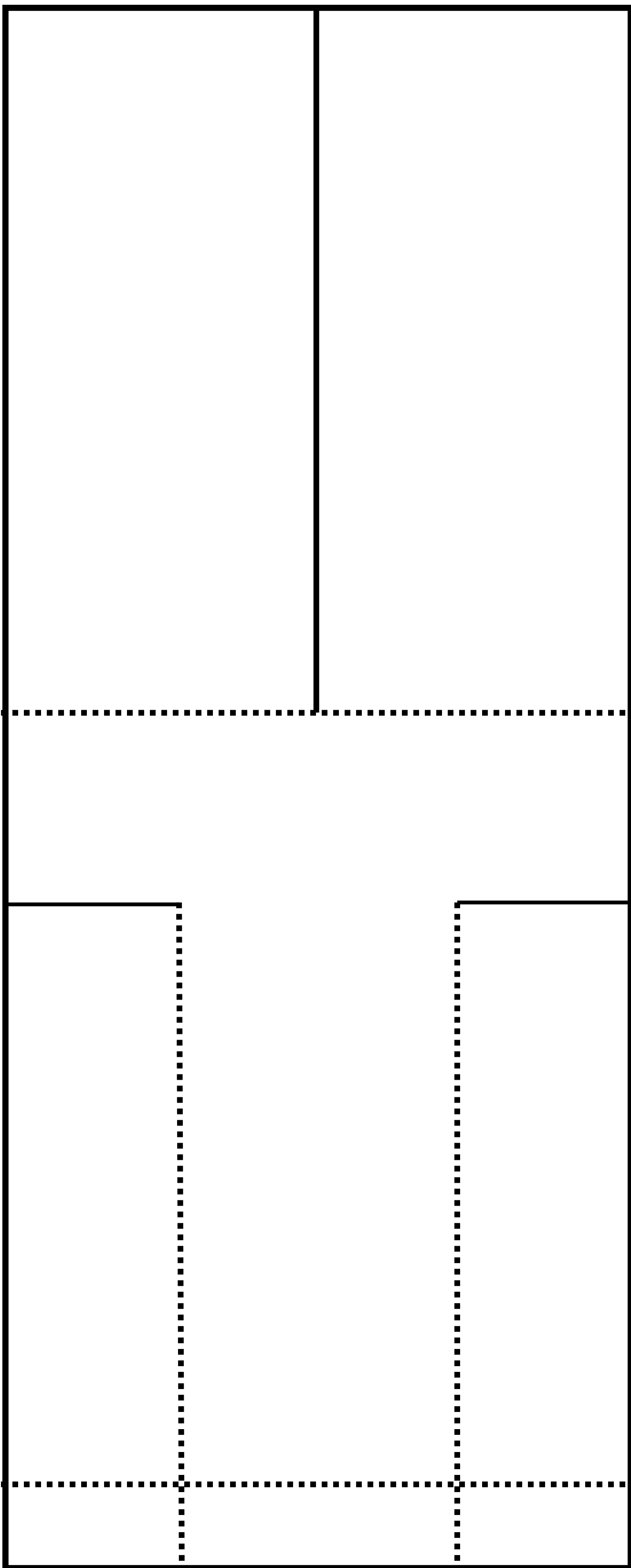
A.



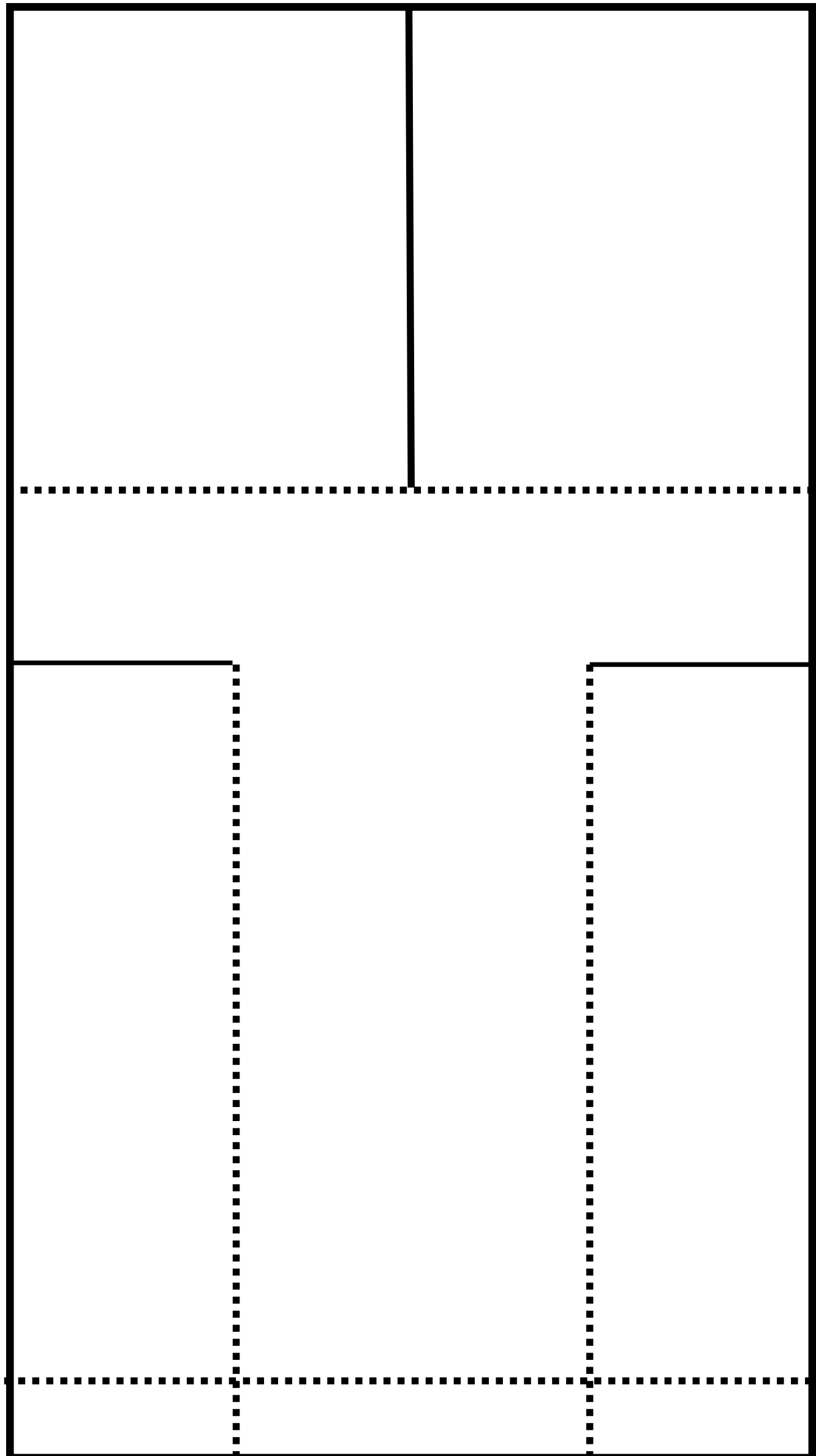
B.



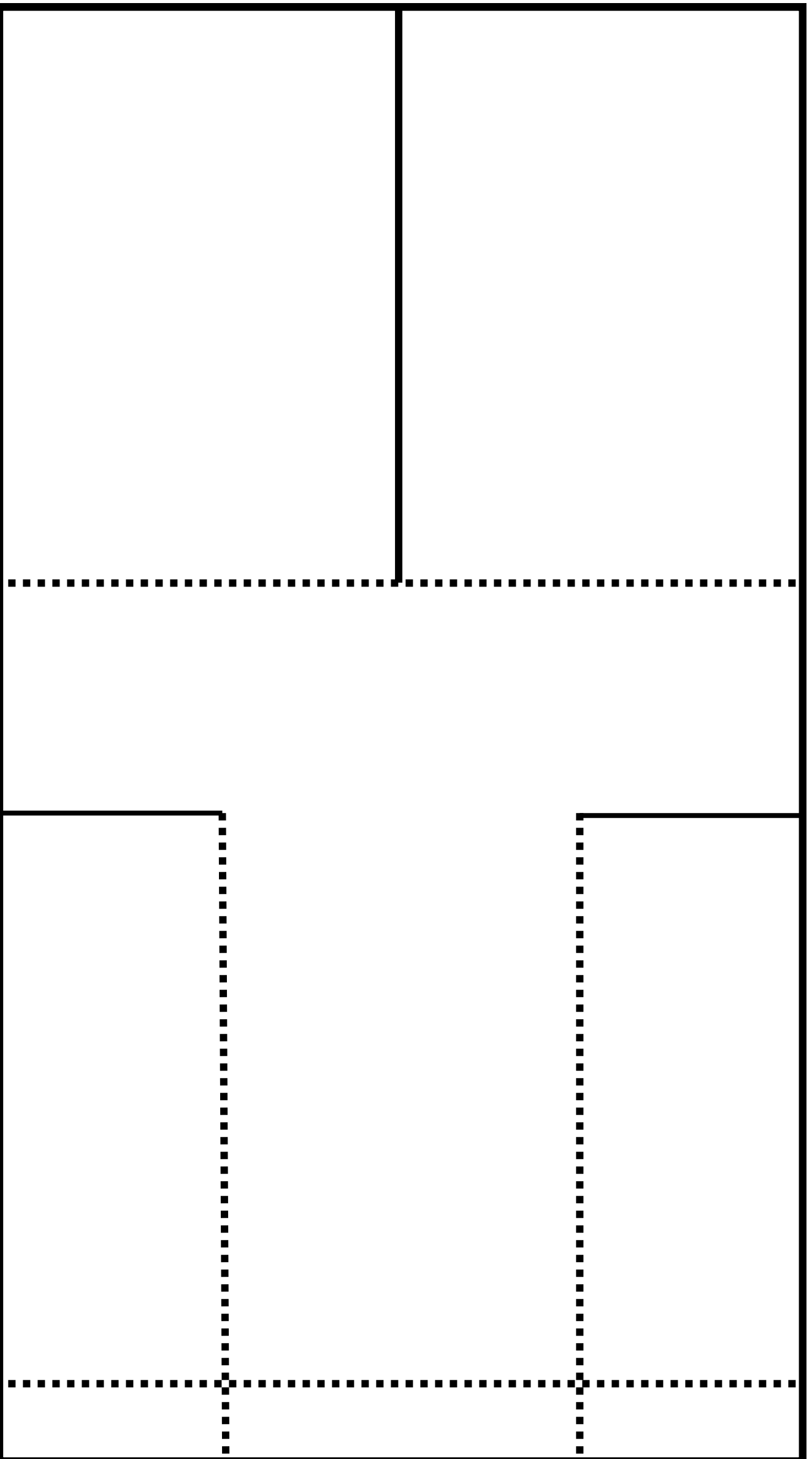
C.



D.



E.



F.

