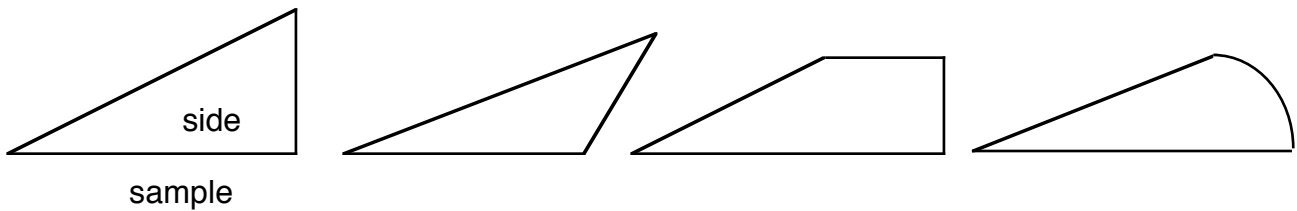


Cardboard Race Car - Car Body Design

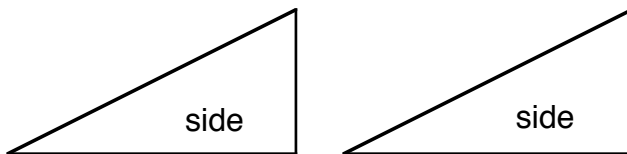
1. Draw and cut a **bottom shape**. A rectangle works well. You'll need scissors, cardstock, ruler, and tape.



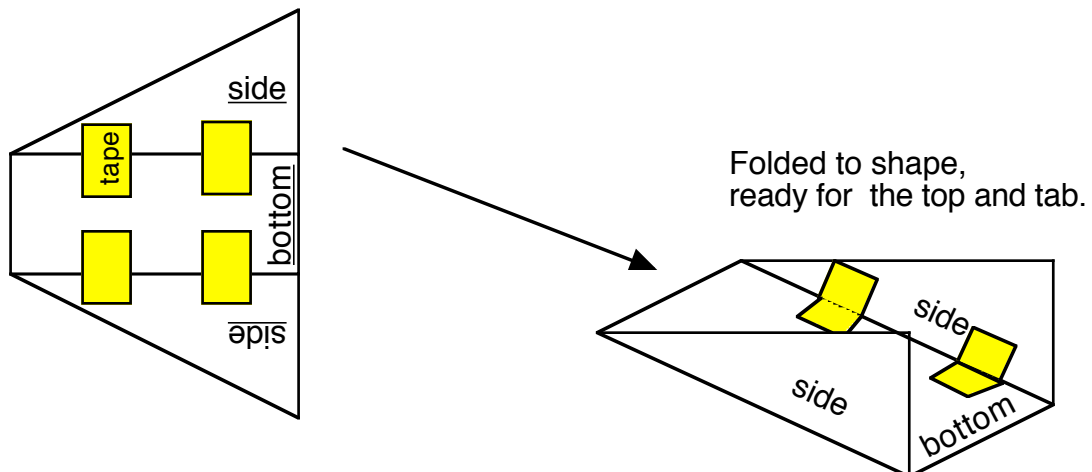
2. Draw and cut out a **side shape**. A triangle works well, but you can draw others.



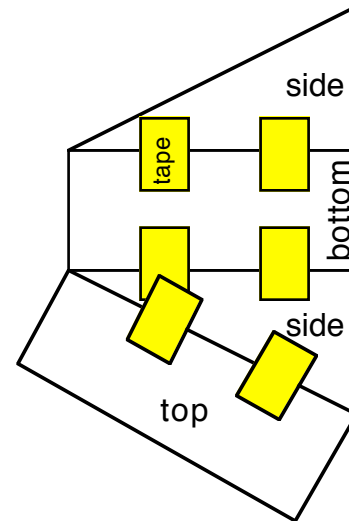
3. Trace your side shape and cut out a **duplicate side shape**.



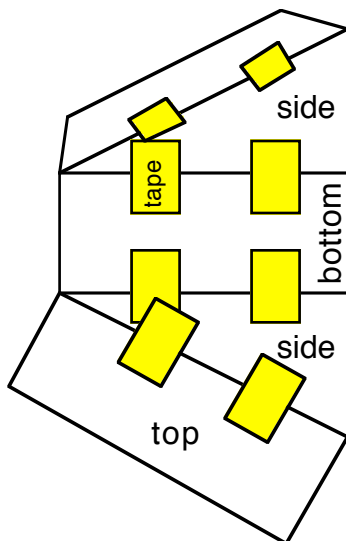
4. Layout your 2 sides opposite of each other and butt them together with your bottom, like the sample below. **Tape them together.**



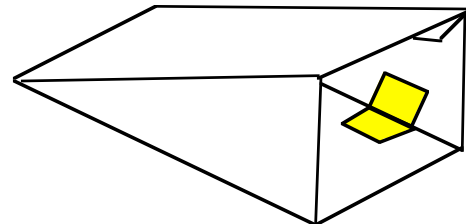
5. We need to **add a top**. Copy the bottom shape plus add a little more to compensate for the side length. This is usually the same size as the bottom, but a little longer, depending on the side shape. This is based on the Pythagorean theorem which you will learn later in 7th grade math.



6. We need to **add a tab**. This is used to glue the car together and make it complete. For our shape, we only need one tab. Some car designs might need two or more tabs. It is not necessary to add a back, but you may.



Fold together to test (do not glue together)



7. Your car body pattern is now ready to be traced on your cardboard to make your real car, then taped on the matboard chassis.