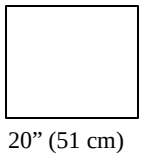
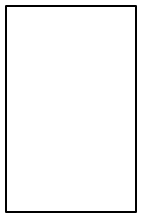
Hot Air Balloons

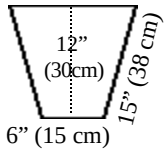
Make one square:



Make four rectangles:



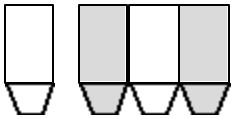
Make four trapezoids:



Materials:

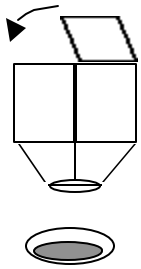
- tissue paper (9 sheets)
- construction paper strip
- glue stick, scissors, ruler, pencil
- hot air popcorn popper (~1440 watts)

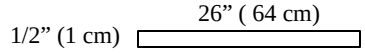
Glue the rectangles and trapezoids into panels. Glue the panels together.



Glue the square on top.

Make a construction paper ring. Glue it on to the bottom edge of the balloon.





Hold the balloon over the hot air popper.

How high does the balloon go when it is filled with hot air for a short time? a long time?

How can you tell when it's ready to fly?

Many things influence how well a balloon floats: the temperature and density of the air (both inside *and* outside the balloon), the mass of the balloon materials, and the distribution of weight. To learn more, check out *Air Travelers*, http://www.omsi.edu/sln/air

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