

If you don't have a spare dice at home, you can make your own, here's how:

- 1.** Grab some scrap paper or cardboard – cardboard is good but paper works too, just needs to be thick so not flyers or newspaper.
- 2.** You then need to draw up a 'net' for the dice – a great practical example of how something flat can be turned into a 3-D shape. The net will need to have 6 equal squares, you can experiment with what shapes do and don't work, easiest one for us is a big letter 'T'
- 3.** This one is going to have 5cm sides on each face of the dice, so to start, we draw a line that is 3x5cm (15cm) long, along the top of the paper for our 3 squares at the top
- 4.** Then we draw 5cm down from each end of the line.
- 5.** Next another 3 x 5cm (15cm) long line to connect all these along the bottom.
- 6.** Now we want 2 little marks, roughly in the middle of the rectangle we just made to help us draw our next lines. Grab the ruler and draw one at 5cm in and one at 10cm in.
- 7.** Draw 2 lines using these marks as a guide – you now should have three, 5x5cm squares in a row.
- 8.** Continue the two lines downwards from the middle square for 15cm each side.
- 9.** Connect these two lines along the bottom with a 5cm line.

10. As before, we use our ruler to measure little marks in the middle of the rectangle we made, this will be 5cm and 10cm up from the bottom line.

11. Draw a line 5cm across on the spots we marked – we've now separated the rectangle into three more squares.

12. You'll want to draw little tabs along the edges – you don't need a ruler for this as they just have to help us glue the shape together, no need to be fussy.

13. Numbers time! You can draw the numbers on your dice now – one per square and don't worry about which way up they are.

14. Time to cut! Little hands may need help – remember, just cut around your net, we want it to look like a big letter 'T' once we are done.

15. Now to start folding up our net into a dice. You will want to do some strong folds on the lines – use your ruler to help you keep them straight.

16. Apply glue to the folds we made – if you get it on the wrong side that's okay, all you'll get is sticky fingers! You could use tape if you don't have glue.

17. Finished! Let it dry a little first to become nice and strong for rolling.