We can create a close version of our Pentatonic Pan Pipes using only an estimation involving ½. Here’s how you can do it.

1. Start by drawing a line segment that is 200 mm long on a sheet of paper. This is the length of your longest pipe. (RED)

2. Find ½ of this length by estimating or by folding the paper to match the ends of your line segment. This is the length of your shortest pipe. (RED)

3. Now find the length that is half way between the longest pipe and the shortest pipe. This is another pipe length and we’ll call it the middle length pipe. (ORANGE)

4. Now find the length that is half way between the longest pipe and the middle pipe. This is another pipe length. (PURPLE)

5. The next step is the tricky part. First find half way between the shortest pipe and the middle pipe lengths. Mark that length, but it won’t be the length of one of the pipes. Use that mark to find the last two pipe lengths. You want one pipe to be half way between the shortest pipe and this mark (BLUE), and the other pipe to be half way between this mark and the middle pipe (GREEN).

That should give you all six pipes.