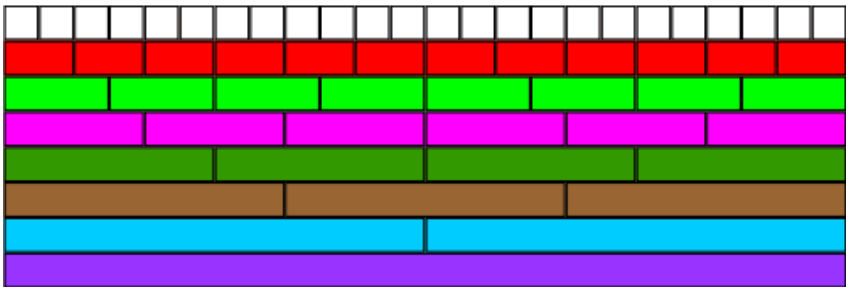
Tumbling Down

Equivalent fractions

1. Watch the video all the way through.
2. What do you see?
3. Watch it again as many times as you like. (You can pause it at any point.)
4. Describe what you notice.
5. How many vertical lines are there at the start?
6. How many vertical lines are there at the end?
7. Which lines 'fall into' others?
8. Why?
9. Focus on the starting image.
10. How would you add to the picture to continue the pattern?
11. What would happen if you could watch an animation using your new image at the start?

Fractional Wall



Using the image above, how many different ways can you find of writing $\frac{1}{2}$?

From the picture, what equivalent fractions for $\frac{1}{3}$ can you find?

Again, using the image of the fraction wall, how else could you write $\frac{3}{4}$?

What other fractions do you know that are the same as $\frac{1}{2}$?

Find some other fractions which are equivalent to $\frac{3}{4}$.

Can you find any "rules" for working out equivalent fractions?

You might find it helpful to print off a picture of the fraction wall.