

# Graffiti Maths

I can use enquiry skills.  $\triangle$  22/6/18

## Tumbling down

1) We noticed that there is a pyramid made up of vertical lines that is being squashed

We also noticed that when the pyramid is being squashed, more vertical lines appear.

When the pyramid is coming down some of the lines connect.

2) We know that there are more vertical lines than horizontal.

3) There are 17 vertical lines at the start.

4) There are 13 vertical lines at the end

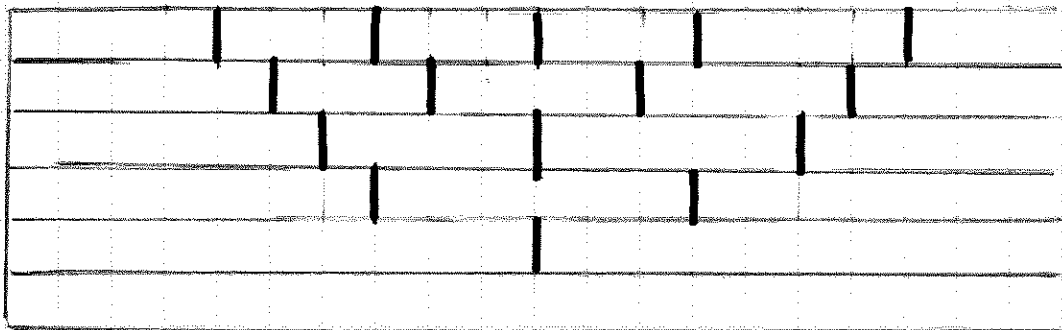
5) 4 of the lines fall into each other and connect.

6) Because they're in line together and they're falling down so they will connect to each other.

7) The  $\frac{1}{2}$  line, the  $\frac{2}{4}$  lines and the  $\frac{3}{6}$

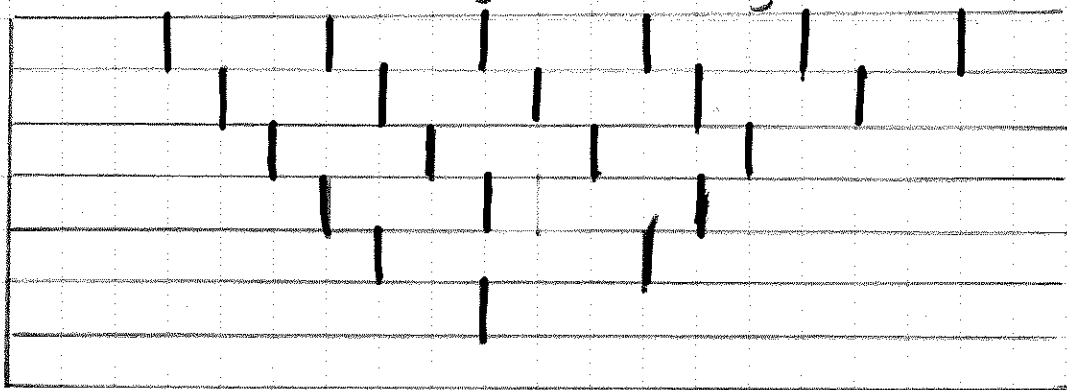
lines fall into each other because there are equivalent fractions.

7)



Original fraction grid

New fraction grid



As you can see I have added another bar to the original. It also continues the pattern.

If I watched another animation it would take longer to tumble down and also there would be more vertical lines at the end.

A wonderful enquiry Alex. You have made great observations and conclusions.

Well done 3HP