Landbeach Bell Ringers Worksheet 5 Answers

From Worksheet 5:

Exercise: Write out the figures for Plain Hunt on 3. Against each row, write what place the second (bell 2) is in. Then do it for the third (bell 3).
Answer (as a table showing the places for all the bells):

		Treble	**Second**	**Third**
1 2 3	*in Rounds*	*first place*	*second place*	*third place*
2 1 3	Method starts	second	first	third
2 3 1		third	first again	second
3 2 1		third	second	first
3 1 2		second	third	first again
1 3 2		first	third again	second
1 2 3	Rounds	first again	second	third again

Question: Over the six rows of the method, how many times does each bell ring in each place?
Answer: twice

Question: In what way do the bells all do different things? In what way do they do the same thing?
Answer: Different: in any one row they are all ringing in different places. Same: They all follow the same pattern of places, following in each others' footsteps.

Question: Do any rows occur more than once in the figures for Plain Hunt on 3?
Answer: No. This is one of the rules for a method. (Although you are allowed to break the rules!)

Exercise: Write out the figures for Plain Hunt on 3 three times. Draw the blue line for the treble through the first set of figures, the blue line for the second through the second set, and so on.
Answer:

Can you see that the blue line for each bell is the same shape, but starts at a different point?

Exercise: Write out the figures for Plain Hunt on 3 yet one more time and draw in the grid, using a different colour for each bell.
Answer: