

Chapter 18 – Activity 8 - Question 3

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- 3 Choose what sort of graph you would use to show the following. Justify your choice.

- a Jamie's and Hemi's coach set them a challenge to see who could improve their basketball goal shooting the most over nine weeks. This table shows the results.

Week	1	2	3	4	5	6	7	8	9
Jamie goals out of 50	12	16	20	24	28	32	36	36	40
Hemi goals out of 50	3	7	11	15	20	26	30	32	36

You could draw or copy to a spreadsheet and then draw the graphs to help your justifications.



- b Fifteen students were timed at two tasks in maths to see if there was any relationship between their results. Task 1 was 25 mental calculations and Task 2 was 25 calculator calculations. The results are shown on this table.

Task 1 (sec)	75	64	83	63	72	67	82	74	61	78	66	73	81	68	77
Task 2 (sec)	53	45	55	47	50	44	52	49	43	53	48	49	52	49	50

- c This table gives the air emissions, in thousand tonne, for carbon monoxide, sulphur oxide and nitrogen oxide. James wanted to know if these had changed over time.



You could investigate pollution further and find out how each of these substances is harmful.

Man-made emission	1990	1995	2000	2005	2010
carbon monoxide	605	640	671	723	714
sulphur oxides	59	65	72	94	74
nitrogen oxides	99	116	135	163	147

Source: OECD Stats Extracts