

ACTION

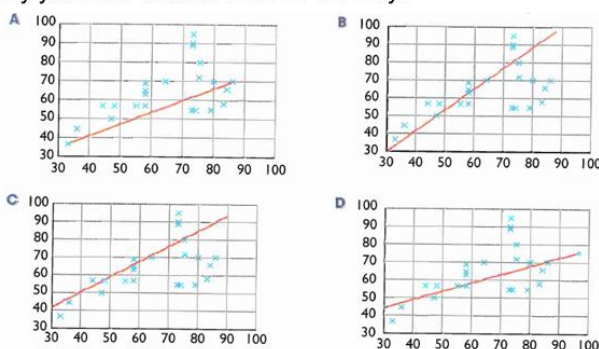
RESPONSE

The table shows the marks (out of 10) given by two judges at a local flower show.

Entrant	A	B	C	D	E	F	G	H	I	J	K	L
Judge 1	10	7	2	4	8	4	6	7	0	2	9	3
Judge 2	9	8	3	5	6	4	7	7	1	4	8	3

- Draw a scatter diagram to show the marks of both judges.
- Describe the correlation between the two judges.
- Draw the line of best fit.

Look at these lines of best fit drawn for the same data. Rank them in order from what you consider to be the best line of best fit, to the worst. You must explain why you have ordered them in this way.



A lifeguard kept a daily record of the highest temperature and the number of people swimming in the sea at 3pm.

Temperature (°C)	32	30	31	34	27	26	25	24	25	23	22	23	24	22
No. of swimmers	203	180	188	144	171	164	155	140	145	135	120	132	126	110

Show this data on a scatter graph and draw a line of best fit.

Use your line to predict the number of swimmers on a day when the forecast is to be 15°C. Comment on the reliability of your estimate.

The lifeguard says, 'My data proves that more people swim when it is hotter'. Explain why the lifeguard is not correct.

Fluency



Reasoning



Problem Solving



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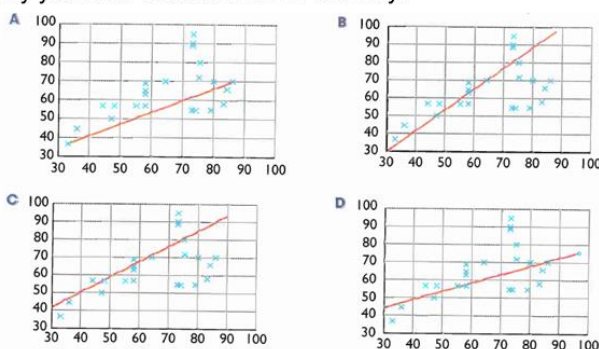
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