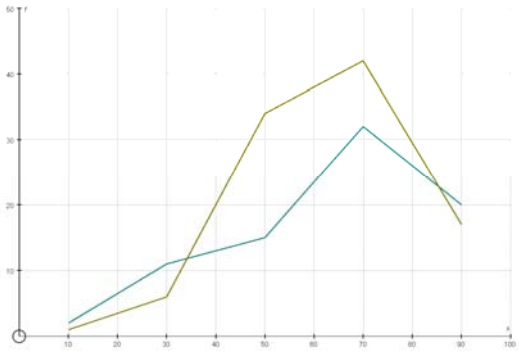
COMPARING DISTRIBUTIONS

Name:

Assessment Criteria: Compare two or more distributions & make inferences, using the shape of the distributions & measures of average & range

1. Naomi planted some pepper seeds and chilli seeds on the same day. She measured the height of the plants four weeks later, and the results are shown in the table, and the data has been represented using frequency polygons.



Height (mm)	Peppers	Chillies
$0 \le h < 20$	2	1
$20 \le h < 40$	11	6
$40 \le h < 60$	15	34
$60 \le h < 80$	32	42
$80 \le h < 100$	20	17

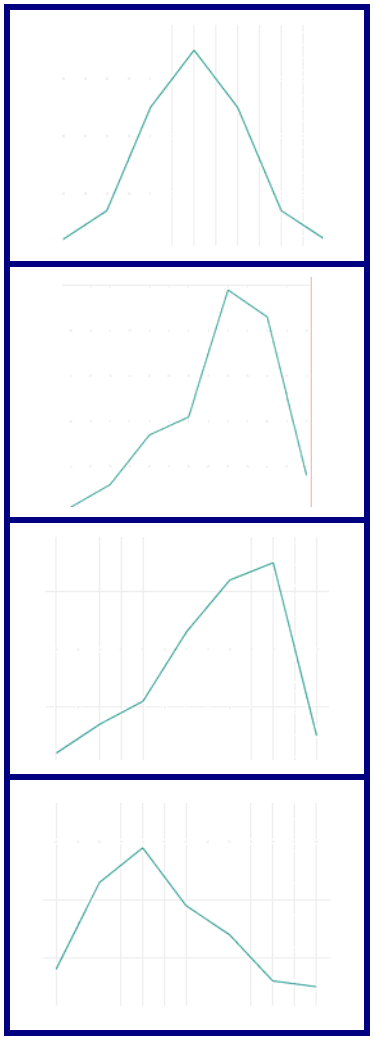
Compare the two types of plant.

2. What is the same about - and what is different about - the two sets of data:

7, 10, 8, 7, 4, 13, 9

7, 9, 3, 11, 9, 2, 6

2. Match each of the diagrams to a statement about it:



Mean > Median
Mean < Median
Mean = Median = Mode
Mode > Median

Overall, I think my success level is:	Low ○ ○ ○ ○ High

Q	COMPARING DISTRIBUTIONS	☺	☹
	I can select an appropriate average to compare two distributions		
	I can use the range to compare two distributions		
	I can use the shape of distributions to compare them		
	I can appreciate the difference between mathematical explanation and experimental evidence		

I need to practise …