Ordered strictly alphabetically
p2 discreteGraph,
p2 frequencyTable, (frequency table, frequency tree and 2 way entry table)
p2 groupedGraph,
p3 MMMRQgrouped, (mean, median, mode, range, quartiles)
p3 MMMRQseparate, (mean, median, mode, range, quartiles)
p3 probabilitySingle,
p4 probabilityTree, (including list all possible ways to select 2 items)
p4 proportionalGraph, (pictogram + pie chart)
p4 scatter,
p5 stemLeaf,
p6 Venn,
discreteGraph
8. state what is wrong with a given graph e.g. missing title on axes, missing or wrong values on an axis, missing key etc.
6. given dual column table or side-by-side or back-to-back bar (i) complete and/or (ii) interpret e.g. how many A or how many more/fewer A than B or which category has the same/a given frequency
5. interpret bar or line graph - must find the frequency total
4. complete bar or line graph - frequencies are between labels on axis
3. interpret bar or line graph - frequencies are between labels
2. complete bar or line graph - only frequencies which are labelled on axis

1. interpret bar or line graph - only frequencies which can be read off axis labels frequencyTable
2. word problem which is easy to solve by drawing a 2 way entry table or frequency tree
3. complete frequency tree or 2 way entry table and then answer a probability question $\{$ not conditional\}
4. complete 2 way entry table
5. complete frequency tree \{one data item is sum of two cells\}
6. complete frequency tree \{each data value given is for only one cell\}
7. interpret 2 way table - find probability \{sum of row or column\}
8. interpret 2 way table - find probability \{individual cell\}
9. complete tally and frequency table
groupedGraph
10. draw a frequency polygon given a (grouped data) frequency table

MMMRQgrouped
6. estimate mean given frequency table \{of continuous data\}
5. state mean given frequency table \{of discrete numerical data\}
4. scaffold to state mean given frequency table $\{$ of discrete numerical data\} scaffold is extra columns to calculate sub total
3. state median and mode or range given frequency table \{of discrete numerical data\}
2. scaffold to state median and mode or range given frequency table \{of discrete numerical data\} scaffold is encouraged to write out all data values

1. from line graph or bar chart or table or pictogram or pie chart state the mode

## MMMRQseparate

12. complete 5 fig summary and work out range and IQR \{un-ordered data\}
13. complete 5 fig summary and work out range and IQR \{ordered data\}
14. state mean of unordered data items
15. state median \{even number\} of unordered data items
16. state range of unordered data items
17. state median of \{odd number\} of unordered data items
18. state mode or modes of unordered data items
probabilitySingle
19. estimate $\{$ expected value\} given incomplete table of probabilities and number of trials
20. find missing probability given incomplete table of probabilities
21. write down probability of not a single event \{probability is e.g. 0.3 \}
22. which is best estimate of probability \{different number of trials\} and explain why
23. state probability of event in words \{using general knowledge\} using only: impossible, likely, evens, likely, certain
24. show probability of single event on probability line
25. state probability of event in words $\{$ which is possible to calculate numerically\} using only: impossible, likely, evens, likely or certain
26. write down probability of not an event \{no diagram $\}$
27. scaffold to show probability of single event on probability line scaffold is given suitable but incomplete fraction labels \{diagram for all experiments except regular dice\}
28. write down probability of single event harder because no diagram
29. write down probability of single event easier because diagram shows all possible outcomes
30. scaffold to label probability line with decimals, percentages and fractions scaffold is some labels are given
probabilityTree
31. given information about 2 independent events either complete an incomplete tree and give probability of one outcome or state the errors in an incorrectly labelled tree
32. find a probability of 2 independent events given tree and probabilities on all branches
33. scaffold to calculate combined probability of 2 independent events scaffold is given a 2 way entry table labelled with outcomes of each event
34. systematic list all possible outcomes e.g. 3 starters and 2 mains
proportionalGraph
35. draw pie chart given frequency table \{NC easy scale factor\}
36. complete pictogram where $1 / 2$ and/or $1 / 4$ symbols are required
37. interpret pictogram with $1 / 2$ and $1 / 4$ symbols \{questions may also include finding total or back to back $\}$
38. complete pictogram - only whole number of pictogram symbol \{complete tally first for some questions $\}$
39. interpret pictogram - only whole number of pictogram symbol
40. scaffold to interpret pictogram - only whole number of symbols scaffold is encouraged to write e.g. dots or T T for 20 inside symbol
scatter
41. interpret scatter $\{$ easy scale $\}$ estimate value $\{$ expected to draw and use line of best fit $\}$
42. complete and interpret scatter: plot two extra points \{easy scale\} and state what kind of correlation shown
stemLeaf
43. interpret stem and leaf diagram find: interquartile range, median, mode, probability less or greater than a value, range $\{$ harder key e.g. $2 \mid 5=250$ or 2.5$\}$
44. draw and interpret stem and leaf diagram find: median, mode, probability less or greater than a value, range \{harder key e.g. $2 \mid 5=250$ or 2.5$\}$
45. interpret a stem and leaf diagram, find: median, mode, probability less or greater than a value, range $\{$ harder key e.g. $2 \mid 5=250$ or 2.5$\}$
46. interpret/draw a stem and leaf diagram, find: median \{odd number of items\}, mode, probability less or greater than a value, range $\{$ data only TU $\}$
47. scaffold to draw stem and leaf diagram \{data only TU\} scaffold is given rough and neat grid and reminded to write a key
48. scaffold to draw stem and leaf diagram $\{$ data only TU\} scaffold is given first few items placed into rough stem and leaf
49. scaffold to interpret a stem and leaf diagram: write out all data long-windedly \{data only TU\} scaffold is given reminder and grid to write values in

Venn
13. complete Venn diagram when e.g. $\mathrm{A}=\{$ multiples of 3$\}$ and $\mathrm{B}=\{$ factors of 12$\}$
12. complete Venn diagram given clues involving $A \cap B$ and /or $A \cup B$
11. solve word problem using Venn diagram and clues
10. find probability $\{$ simple not conditional\} from Venn diagram
7. complete Venn diagram when $\mathrm{A}=\{$ given $\}, \mathrm{B}=\{$ given $\}$ and $\xi=\{$ given $\}$
4. complete $\mathrm{A} \cap \mathrm{B}=\{$ a list of all elements $\}$ or spot the errors
3. complete e.g. $A^{\prime}$ or $B^{\prime}=\{$ a list of all elements $\}$ or spot the errors given a complete 2 loop Venn diagram
2. complete e.g. $\xi$ or A or $\mathrm{B}=\{$ a list of all elements $\}$

