GCSE Statistics

Worksheets by grade with worked solutions

Grades 1 to 9 | Foundation and Higher

One worksheet for each grade from 1 to 9. Every question practises one topic from the list below, and every question has a full worked solution in the worked solutions PDF for that grade. Grades 1 to 5 are Foundation content. Grades 6 to 9 are Higher only.

Grade	Tier	Topics, in question order
Grade 1	Foundation	1. Qualitative and quantitative data 2. Tally charts and frequency tables 3. Pictograms 4. Bar charts 5. Mode and range 6. Median 7. Probability words and the probability scale 8. Reading data from tables
Grade 2	Foundation	1. Discrete and continuous data 2. Primary and secondary data 3. Mean from a list 4. Two-way tables 5. Reading pie charts 6. Line graphs 7. Probability of a single event 8. Dual and composite bar charts
Grade 3	Foundation	1. Population, census and sample 2. Writing a hypothesis 3. Questionnaires and biased questions 4. Stem and leaf diagrams 5. Drawing pie charts 6. Scatter diagrams and correlation 7. Mean from a frequency table 8. Experimental probability and expected frequency
Grade 4	Foundation and Higher	1. Random and stratified sampling 2. Estimated mean from a grouped frequency table 3. Frequency polygons 4. Line of best fit, interpolation and extrapolation 5. Time series and trend lines 6. Sample space diagrams 7. Venn diagrams 8. Simple index numbers

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Grade 5	Foundation and Higher	1. Cumulative frequency diagrams 2. Median, quartiles and interquartile range 3. Box plots and comparing distributions 4. Moving averages 5. Tree diagrams 6. Crude birth and death rates 7. Systematic, quota and cluster sampling 8. Capture-recapture
Grade 6	Higher	1. Histograms with unequal class widths 2. Outliers 3. Skewness 4. Weighted mean 5. Seasonal variation and predictions 6. Chain base index numbers 7. Conditional probability 8. Comparative pie charts
Grade 7	Higher	1. Standard deviation 2. Spearman's rank correlation coefficient 3. The regression line $y = a + bx$ 4. Weighted index numbers 5. Standardised scores 6. Geometric mean 7. Standardised death rates 8. Estimating the median by linear interpolation
Grade 8	Higher	1. The normal distribution 2. The binomial distribution 3. Quality assurance and control charts 4. Standard deviation from a frequency table 5. Interpreting Pearson's and Spearman's coefficients 6. Calculating skew 7. Comparing distributions with mean and standard deviation 8. Mean seasonal variation
Grade 9	Higher	1. Changing data: effect on the mean and standard deviation 2. Binomial probability problems 3. Normal distribution and control limits 4. Histogram problems with missing values 5. Conditional probability without replacement 6. Sampling and capture-recapture assumptions 7. Reliability of regression predictions 8. Evaluating a statistical investigation

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