

National Numeracy Tests – Year 7 topics list

- Read and write numbers of any size
- Use addition, subtraction, multiplication and division and the connections between them e.g. division is the inverse operation to multiplication
- Use the terms square and square root
- Equivalence of fractions, decimals and percentages
- Recognise some fractions are recurring decimals e.g. $\frac{1}{3} = 0.\dot{3}$
- Calculate percentages of quantities
- Use ratio and proportion including map scales
- Add and subtract numbers to 2 decimal places
- Multiply and divide 3-digit numbers by 2-digit, extending to multiplying and dividing decimals with 1 or 2 places by single-digit whole numbers
- Multiply and divide whole numbers by 0.5, 0.2, 0.1
- Use the order of operations
- Use a range of strategies to check calculations including inverse operations, equivalent calculations and the rules of divisibility
- Use profit and loss in buying and selling calculations
- Understand the advantages and disadvantages of using bank accounts, including bank cards
- Make informed decisions relating to discounts and special offers
- Find perimeters of shapes with straight sides
- Read and interpret scales on a range of measuring instruments
- Convert between units of the metric system and carry out calculations
- Measure and record time in hundredths of a second
- Use time zones
- Record temperatures in appropriate temperature scales
- Use formulae for the area of rectangles and triangles
- Measure and draw angles
- Collect own data for a survey e.g. through designing a questionnaire
- Construct frequency tables for sets of data, grouped where appropriate, in equal class intervals
- Construct a wide range of graphs and diagrams to represent the data and reflect the importance of scale
- Interpret diagrams and graphs (including pie charts)
- Use mean, median, mode and range to compare two distributions (discrete data)

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