



Year 6 Basic Skills

Number

- Count forward and backwards in steps of powers of 10 for any given number up to 10 000 000 (10 million)
- Count forwards and backwards with positive and negative whole number, including zero and calculate intervals across zero
- Read, write, order and compare numbers up to 10 000 000 and determine the place value of each digit
- Partition numbers into place value columns
- Partition numbers in different ways
- Round any whole number to a required degree of accuracy

Calculating (+/-/x/÷)

- Use rounding to support estimation and calculation
- Use knowledge of place value to derive new addition and subtraction facts
- Recognise and use square and cube numbers
- Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.
- Establish whether a number up to 100 is prime and recall prime numbers up to 19
- Double any number between 1 and 1000 and find all corresponding halves
- Add and subtract mentally with jottings with increasingly large numbers to aid fluency E.g. HthTthTHTU ± TthTHTU TthTHTU ± THTU HTU.t ± TU.t
- Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 giving answers up to 3 decimal places
- Perform mental calculations including with mixed operations
- Count up and down in tenths, hundredths and thousandths in decimals and fractions including bridging zero for example on a number line
- Use their knowledge of the order of operations to carry out calculations, involving the four operations

Fractions, decimals and percentages

- Use factors to simplify fractions
- Compare and order decimals and fractions including fractions >1
- Calculate simple percentages of amounts
- Recognise mixed numbers and improper fractions and convert from one form to another and write mathematical statements > 1 as a mixed number
- Derive decimal complements to 1 working with decimals up to 3 decimal places
- Recall and derive equivalences between fractions, decimals and percentages

Measurement

- Convert between money and measures including time