



Hartshorne C of E Primary School

Mathematics Non-Negotiables - Reception

By the end of Reception, the vast majority of children should be able to...

- † Count to 20.
- † Count reliably at least 10 objects.
- † Use 'more' and 'less' to compare two numbers.
- † Estimate number of objects and check by counting.
- † Recognise written numerals 1 to 9.
- † Say one more/less (to 10).
- † Add two small groups of objects (to 10).



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Mathematics Non-Negotiables – Year 1

By the end of Year 1, the vast majority of children should be able to...

- † Count at least 20 objects reliably.
- † Count on and back in 1s, 2s, 5s and 10s.
- † Can double to at least 10.
- † Read, write & order numbers from 0 to at least 20.
- † Put numbers 0 – 20 in order.
- † Say what is one more & one less (0 – 30).
- † Add & subtract two numbers under 10.
- † Know & use bonds to 10 and total to at least 5 (and subtraction facts).



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Mathematics Non-Negotiables – Year 2

By the end of Year 2, the vast majority of children should be able to...

- † Count to at least 100.
- † Explain value of digits (to 3 digits).
- † Read, write & order numbers up to 100.
- † Count on and back in ones & tens from any number under 100.
- † Know & use all bonds to 20.
- † Know and use number families to 20.
- † Know all number pairs to 100 using 'ten' numbers.
- † Can double all numbers up to 10 and halve all even numbers up to 20.
- † Know by heart $\times 2$, $\times 5$ and $\times 10$.
- † Tell time to half & quarter hour.



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Mathematics Non-Negotiables – Year 3

By the end of Year 3, the vast majority of children should be able to...

- † Read, write and order numbers to 1000; know value of each digit.
- † Count on and back in ones, tens or hundreds from any number under 1000.
- † Know by heart addition & subtraction facts to 20.
- † Use pairs of numbers that total 100 (and subtraction facts).
- † Add and subtract one digit and two digit numbers.
- † Know by heart $\times 2$, $\times 3$, $\times 4$, $\times 5$, $\times 6$ and $\times 10$ (and division facts).
- † Do simple divisions, e.g. 27 divided by 5.
- † Find simple fractions, e.g. $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{1}{10}$ of shapes & amounts.
- † Use £.p and know value of amounts.
- † Tell time to nearest 5 minutes.



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Mathematics Non-Negotiables – Year 4

By the end of Year 4, the vast majority of children should be able to...

- † Read, write and order numbers to 10,000, and know value of each digit.
- † Know by heart all times tables to 10x10 (and division facts).
- † Round numbers (up to 3 digits) to nearest 10 or 100.
- † Add and subtract mentally pairs of two digit numbers
- † Multiply and divide 2 digit numbers by 10 or 100.
- † Divide (up to 4 digits) numbers by 10 or 100.
- † Multiply and divide numbers up to 100 by 2, 3, 4 or 5 and find remainders.
- † Identify pairs of fractions that total 1.
- † Tell times to nearest minute.



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Mathematics Non-Negotiables – Year 5

By the end of Year 5, the vast majority of children should be able to...

- † Read, write and order numbers to 2dp; know value of each digit.
- † Multiply & divide positive integers up to 10,000 by 10 or 100.
- † Order set of positive and negative integers.
- † Calculate halves & doubles of decimals (to 1dp).
- † Explain place value to 2dp
- † Round numbers with 1 or 2dp to nearest integer.
- † Use division to find fraction of a number.
- † Work out difference between two numbers (to 4 digits).
- † Add and subtract numbers up to 10,000.
- † Know by heart all multiplication facts to 10×10 (& division facts).
- † Double numbers to 100 in head.
- † Multiply or divide 3-digit by 1-digit number.
- † Multiply 2-digit by 2-digit integer.



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Mathematics Non-Negotiables – Year 6

By the end of Year 6, the vast majority of children should be able to...

- † Multiply and divide decimals mentally by 10 or 100, and integers to 1000.
- † Use tables to work with decimals (to 1dp).
- † Use multiplication facts to derive squares of numbers to 12x12.
- † Order mixed set of numbers (up to 3dp).
- † Work out simple % of whole numbers.
- † Work out which fraction is larger/smaller by cancelling common factors.
- † Use pencil & paper methods to multiply & divide.
- † Use pencil & paper methods to add & subtract decimals.
- † Multiply 2 and 3 digit integers by 2-digit integer.
- † Multiply and divide decimals by 10 or 100 in the head.
- † Add and subtract using decimals.
- † Order numbers (up to 3dp).