



# Maths Newsletter

This term our whole school targets are:

## Multiplication and division

### Year 1

I can solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.

### Year 3

I can recall and use multiplication and division facts for all my tables up to 12.

I can calculate two-digit numbers times one-digit numbers using formal written methods.

I can solve problems, including missing number problems, involving multiplication and division, and problems in which  $n$  objects are connected to  $m$  objects.

### Year 5

I can identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.

I can know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.

I can find out whether a number up to 100 is prime and recall prime numbers up to 19.

I can multiply numbers up to four digits by a one or two-digit number using a formal written method.

I can multiply and divide numbers mentally drawing upon known facts.

I can divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.

I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.

I can recognise and use square numbers and cube numbers, and the notation for squared and cubed.

I can solve problems involving multiplication and division using my knowledge of factors and multiples, squares and cubes.

I can solve problems using addition, subtraction, multiplication and division.

I can solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.

### Year 2

I can recall and use multiplication and division facts for the 2, 5 and 10 times tables.

I can use the multiplication, division and equal sign.

I can show that multiplication of two numbers can be done in any order and division cannot.

I can solve problems with multiplication and division, using arrays and repeated addition.

### Year 4

I can recall multiplication and division facts for multiplication tables up to  $12 \times 12$ .

I can use place value, known and derived facts to multiply and divide mentally by 0 and 1 and multiply together three numbers.

I can recognise and use factor pairs and commutativity in mental calculations.

I can multiply two-digit and three-digit numbers by a one-digit number using formal written layout.

I can solve problems involving multiplying and adding, including problems such as  $n$  objects are connected to  $m$  objects.

### Year 6

I can multiply multi-digit numbers up to four digits by a two-digit whole number using the formal written method of long multiplication.

I can divide numbers up to four digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.

I can divide numbers up to four digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context.

I can solve problems involving multiplication and division.

### Ways to help your child:

- Chant times tables. Start with 2x, 5x, 10x then move to 3x, 4x, 6x, 7x etc.....

- Practise the written methods: Short multiplication      Long multiplication

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{U} \\ 4 \quad 6 \quad 3 \\ \times \quad \quad 8 \\ \hline 3 \quad 7 \quad 0 \quad 4 \end{array} \quad \leftarrow \text{Answer line}$$

$$\begin{array}{r} \text{Th} \quad \text{H} \quad \text{T} \quad \text{U} \\ 3 \quad 1 \quad 8 \\ \times \quad \quad 2 \quad 6 \\ \hline 3 \quad 1 \quad 8 \quad \leftarrow \text{Answer line 1} \\ 1 \quad 0 \quad 6 \quad 0 \quad \leftarrow \text{Answer line 2} \\ \hline 1 \quad 3 \quad 7 \quad 8 \quad \leftarrow \text{Answer line 3} \end{array}$$

### Long division

$$\begin{array}{r} 0 \quad 3 \quad 1 \quad 8 \quad r5 \\ 20 \overline{) 6365} \\ \underline{60} \phantom{0} \\ 36 \phantom{0} \\ \underline{20} \phantom{0} \\ 165 \\ \underline{160} \\ 5 \end{array}$$

- Play matching pairs—match the answer to the question

- Solve word problems together: 'I have 12 pencils. Our class needs 9 times as many. How many pencils does our class need?'

### Riddle of the term

Why didn't the  
two 4s want any  
dinner?

Answer: because they already 8!!

To help even further each child in Key Stage 2 will receive a free times table bookmark!

Good luck!