## Line it up

You need a ruler marked in centimetres and millimetres.

- Use the ruler to draw 10 different straight lines on a piece of paper.
- Ask your child to estimate the length of each line and write the estimate on the line.
- Now give them the ruler and ask them to measure each line to the nearest millimetre.
- Ask them to write the measurement next to the estimate, and work out the difference.
- A difference of 5 millimetres or less scores 10 points. A difference of 1 centimetre or less scores 5 points.
- How close to 100 points can she get?



## Guess my number

- Choose a number between 0 and 1 with one decimal place, e.g. 0.6.
- Challenge your child to ask you questions to guess your number. You may only answer 'Yes' or 'No'. For example, he could ask questions like 'Is it less than a half?'
- See if he can guess your number in fewer than 5 questions.
- Now let your child choose a mystery number for you to guess.

Extend the game by choosing a number with one decimal place between 1 and 10, e.g. 3.6. You may need more questions!

## Times tables

Ask your child a different times-table fact every day,
e.g. What is 6 times 8 ? Can you use this to work out $12 \times 8$ ?
and: What is 48 divided by 6 ?

## Useful Websites:

- mathsframe.co.uk
- topmarks.co.uk
- bbc.co.uk/bitesize/ks2/maths
- ictgames.com
- crickweb.co.uk


## Maths targets for pupils in Year 5



## A booklet for parents

Help your child with mathematics

## Targets - Year 5

## By the end of the Autumn Term most children should be able to...

1. read, write, order and compare numbers to at least 1000000 and determine the value of each digit
$1030456>706358$
$708432<2034678$ ( $<$ is less than)
2. count forwards or backwards in steps of powers of 10 for any given number up to 1000000

$$
\begin{aligned}
10^{0} & =1 \\
10^{1} & =10 \\
10^{2} & =10 \times 10=100 \\
10^{3} & =10 \times 10 \times 10=1000 \text { etc }
\end{aligned}
$$

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

| $200 \div 10=20$ | $2 \times 10=20$ |
| :--- | :--- |
| $200 \div 100=2$ | $2 \times 100=200$ |
| $200 \div 1000=0.2$ | $2 \times 1000=2000$ |

4. read and write decimal numbers as fractions
for example, $0.71=71 / 100$
5. add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)

| 76134 | $5^{3} ぬ^{1} 3^{1} \varnothing^{1} 1$ |
| ---: | ---: |
| $+4+785$ |  |
| 80919 | -23718 |
| 30603 |  |

6. add and subtract numbers mentally with increasingly large numbers $25+29=$

$$
58-39=
$$

$\square$
7. identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers

A multiple is a result you get when you multiple one whole number with another. e.g. 2, 4, 6, 8, 10 are multiples of 2.
A factor of a number is a whole number that divides exactly into
it. E.g. you can divide 12 by 3 . 3 and 4 are factors of 12 .
8. multiply numbers up to 4 digits by a one-digit number using a formal written method
$\begin{array}{r}756558912 \\ \times \quad 9 \\ \hline 689328\end{array}$

## About the targets

These targets show some of the things your child should be able to do by the end of Year 5.

A target may be harder than it seems, e.g. a child may subtract 3994 from 9007 by writing it in columns, without realising it is quicker to count on from 3994 up to 9007 in his / her head.

Here are some examples of activities children will be expected to do. You could help your child by working on these at home:

- I can explain and represent how I know that 71.7 m is greater than 71.57 m , explain why it is easy to subtract 0.7 m from 71.7 m and why rounding both numbers to the nearest metre gives the same result, suggesting other numbers that would also round to 72 m .
-I can explain and represent the relationship between 71.7 and 717 .
-I can choose pairs of numbers from a table of data showing distances between major cities in the world and explain and justify my decisions for: pairs of numbers where I would use a mental method to find the difference or total; and pairs of numbers where I would use a written method to find the difference or total
- I can explain and represent why the solution to $83 \div 6$ is different in the two contexts: " 83 people need to travel in taxis that each carry 6 people, how many taxis do you need?" and " 83 eggs have been collected, how many boxes of 6 can be filled?"


