

TV addicts

Ask your child to keep a record of how long he / she watches TV each day for a week. Then ask him / her to do this.

- ◆ Work out the total watching time for the week.
- ◆ Work out the average watching time for a day (that is, the total time divided by 7).

Instead of watching TV, you could ask them to keep a record of time spent eating meals, or playing outdoors, or anything else they do each day. Then work out the daily average.

Four in a line

Draw a 6 x 7 grid.

Fill it with numbers under 100.

26	54	47	21	19	5	38
9	25	67	56	31	49	13
39	41	6	1	75	28	90
14	50	81	23	43	4	37
45	29	72	34	7	58	17
36	2	55	11	22	40	42

- ◆ Take turns.
- ◆ Roll three dice, or roll one dice three times.
- ◆ Use all three numbers to make a number on the grid.
- ◆ You can add, subtract, multiply or divide the numbers, e.g. if you roll 3, 4 and 5, you could make $3 \times 4 - 5 = 7$, $54 \div 3 = 18$, $(4 + 5) \times 3 = 27$, and so on.
- ◆ Cover the number you make with a coin or counter.
- ◆ The first to get four of their counters in a straight line wins.

Rhymes

Make up rhymes together to help your child to remember the harder times-tables facts, e.g.

$6 \times 7 = 42$ phew! $7 \times 7 = 49$ fine! $6 \times 8 = 48$ great!

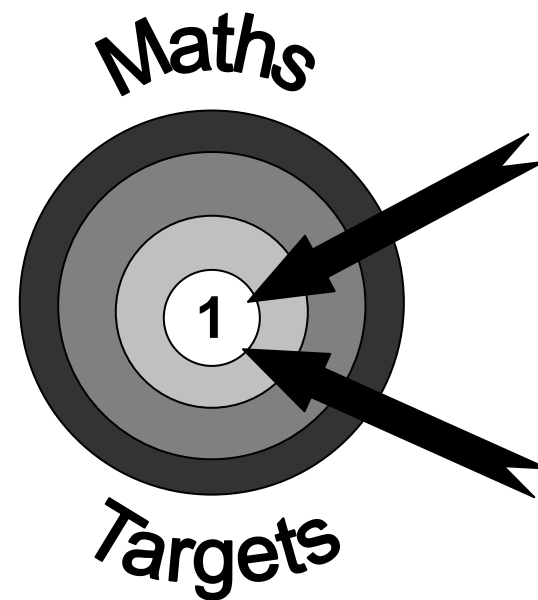
Make it real!

Look at timetables together (e.g a train or bus timetable)

Ask questions such as:

- How long does the first train take to travel to London?
- If you had to be in London by 08.30 what train would you need to catch?

Helping your child with Maths in Year 6



A booklet for parents

Fun mathematical activities to do at home

This is some of the maths your child should be able to do by the end of Y6

- read, write, order and compare numbers up to 10 000 000 and determine the value of each digit
- round any whole number to a required degree of accuracy
- use negative numbers in context, and calculate intervals across zero
- solve number and practical problems
- perform mental calculations
- identify common factors, common multiples and prime numbers
- solve problems involving addition, subtraction, multiplication and division
- use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy
- use common factors to simplify fractions; use common multiples to express fractions in the same denomination
- compare and order fractions, including fractions >1
- associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $\frac{3}{8}$)
- identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places
- recall and use equivalences between simple fractions, decimals and percentages, including in different contexts
- solve problems involving the calculation of percentages (e.g. of measures) such as 15% of 360 and the use of percentages for comparison
- solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate
- use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places
- convert between miles and kilometres
- recognise that shapes with the same areas can have different perimeters and vice versa
- draw 2-D shapes using given dimensions and angles
- recognise, describe and build simple 3-D shapes, including making nets

The activities given will all help your child towards achieving some of the maths they should be able to by the end of Year 6. Building confidence in maths is crucial so do praise their efforts.

Favourite food

- ◆ Ask your child the cost of a favourite item of food. Ask them to work out what 7 of them would cost, or 8, or 9. How much change would there be from £50?
- ◆ Repeat with his / her least favourite food. What is the difference in cost between the two?

Sale of the century

- ◆ When you go shopping, or see a shop with a sale on, ask your child to work out what some items would cost with:
 - 50% off
 - 25% off
 - 10% off
 - 5% off
- ◆ Ask your child to explain how she worked it out.

Make it real!

Ordering a takeaway

Use a takeaway menu to order a pretend meal or one that you plan to have soon. Ask your child to work out the cost? Compare with a different take away menu

Scaling a recipe up or down

Ask your child to take a recipe for 6 people. Can they change it into a recipe for 3 or 12 or 9?

Have a go at questions like these together.....

- Katie uses 10 tomatoes for every $\frac{1}{2}$ litre of sauce. How many tomatoes does she need for one litre of sauce? How much sauce can she make from 30 tomatoes?
- Chicken must be cooked for 50 minutes for every kilogram. How long does it take to cook a 3kg chicken?
- There are 25ml of juice concentrate in every 100ml of a juice drink. How much concentrate is needed to make $\frac{1}{2}$ litre of juice drink?