Year 6– Number facts you can support your child to learn at home.

Counting:

- **Count fluently on/back in steps of powers of 10 from any given number.**

Original Number	10 more	100 more	1,000 more	10,000 more	100,000 more
37	47		1,037	10,037	
490		590		10,490	100,490
1,365	1,375		2,365		

- **Count back through zero in different multiples.**

Here are five numbers from a counting pattern.

5	−15	−3	1	−11

The numbers are not in the correct order.

A sixth card is missing to complete the count.

What is the missing number?

Addition and Subtraction:

- **Apply place-value knowledge to known additive number facts (scaling facts by 100)**

$8+6=14$ and $14-6=8$

so

$800+600=1{,}400$ and $1{,}400-600=800$

$8+6=14$	$14-6=8$	$14-8=6$
$0.8+0.6=1.4$	$1.4-0.6=0.8$	$1.4-0.8=0.6$

Multiplication and Division:

- **Secure fluency of multiplication and division facts up to 12 x 12. Specific focus on the 36 facts needed for formal multiplication.**

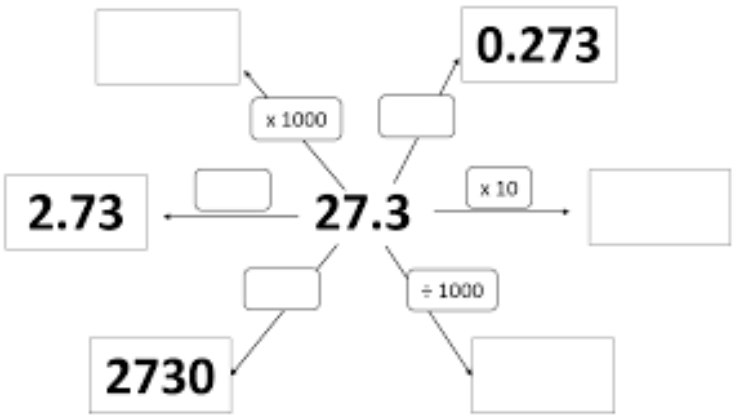
2×2 3×2 4×2 5×2 6×2 7×2 8×2 9×2	3×3 4×3 5×3 6×3 7×3 8×3 9×3	4×4 5×4 6×4 7×4 8×4 9×4	5×5 6×5 7×5 8×5 9×5	6×6 7×6 8×6 9×6	7×7 8×7 9×7	8×8 9×8	9×9

- **Multiply and divide numbers and decimals using known facts (scaling)**

$3 \times 4 = 12$ and $12 \div 4 = 3$
so
$300 \times 4 = 1{,}200$ and $1{,}200 \div 4 = 300$

$3 \times 4 = 12$
$0.3 \times 4 = 1.2$
$0.03 \times 4 = 0.12$

- **Multiply and divide numbers/decimals by 10, 100 and 1000.**



How to help at home

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1. Look for large numbers

Talk about large numbers in the real world, such as house prices, electricity meter readings or football transfer values. When you see big numbers, ask your child to read them aloud. Can they write large numbers accurately if you say them?

2. Rewrite the recipe book

Cooking is a great way to explore ratio and proportion. Try adjusting recipes to make different quantities. For example, ask your child: ‘A recipe uses 240 g of oats to make 18 flapjacks. What quantity of oats is needed for 24 flapjacks?’.

3. Find an average

Explore the ‘mean’ average in real life. Find a football team’s mean number of goals per match by adding all the goals scored and dividing the total by the number of matches played. Or find the mean number of minutes the school run takes over a week.