



## Year 4 Autumn 2 KIRFS

Key Instant Recall Facts (KIRFs) are designed to support the development of the arithmetic skills that underpin all maths learning in school. KIRFs help reduce the cognitive load when learning maths and greatly support the development of mental maths agility.

Recall of 6 x table – multiplication and division facts

For example:

$$\begin{array}{l} 6 \times 2 = 12 \quad 12 \div 2 = 6 \\ 2 \times 6 = 12 \quad 12 \div 6 = 2 \end{array}$$

In addition, you can help by practising the following:

7 times table	$1 \times 7 = 7$ $7 \times 7 = 49$ $2 \times 7 = 14$ $8 \times 7 = 56$ $3 \times 7 = 21$ $9 \times 7 = 63$ $4 \times 7 = 28$ $10 \times 7 = 70$ $5 \times 7 = 35$ $11 \times 7 = 77$ $6 \times 7 = 42$ $12 \times 7 = 84$
Rounding and adjusting to add 2-digit numbers when one ending in a 9 as a mental strategy	$25 + 19 = 25 + 20 - 1$  Step 1 - Round 19 to 20 Step 2 - $25 + 20 = 45$ Step 3 - adjust $45 - 1 = 44$  $25 + 19 = 44$
Recall 10, 100 or 1000 more or less than any whole number up to 10,000	$100 \text{ more than } 563 = 663$ $10 \text{ less than } 563 = 553$ $1000 \text{ more than } 563 = 1563$