MULTIPLICATION

1. **Times Tables** - By the end of Year 3 pupils should know off by heart;

> 2 times table
> 5 times table
> 10 times table
> 3 times table
> 4 times table
> 6 times table

By the end of year 4 pupils will know all times table to 12x12

2. **Empty Number line** 12×5 they work out that that 10 fives are 50 and add on another 2 fives to make 60.

3. **The Grid Method** – 38 x 7 =266 Pupils split the numbers into tens and units before multiplying.

×	7
30	210
8	56
	266

The grid method is also used for TU x TU – 27 x 56 = 1512

×	20	7	
50	1000	350	1350
6	120	42	162
			1512

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4. **Expanded Column Method** – 38 x 7 = 266
   (Tens and units are split)

$$30 + 8$$
$$\times\ \underline{\ 7}$$

$$210 \quad 30 \times 7 = 210$$
$$\underline{\ 56} \quad\ \ 8 \times 7 = \ \ 56$$
$$\underline{266}$$

5. **Short Multiplication** - TU x U, HTU x U, ThHTU x U

$$24$$
$$\underline{X\ 6}$$
$$\underline{144}$$
2

$$342$$
$$\underline{X\ \ 7}$$
$$\underline{2394}$$
2 1