Multiplication

Children may need to refer ‘back’ to previous years’ recording at any time, particularly when decimals or larger numbers are introduced.
Children to use practical apparatus, number lines and hundred squares for support

Year Group: 5

Signs and Symbols

- Know by heart all the multiplication facts to 10 x 10

Working rapidly using known facts:

70 x 6 = ☐ 11 x ☐ = 88 ☐ x 9 = 0·36
80 x 9 = ☐ 6 x ☐ = 48 ☐ x 7 = 0·49
△ x △ = 21

72 x 6 = ☐ 180 x ☐ = 540 ☐ x 9 =189
(14 x ☐) + 8 = 50 46 x 28 = ☐

Pencil and Paper Procedures

Grid Method (TU x TU) to support progression to long then short multiplication

72 x 38

x	70	2
30	2100	60
8	560	16

2160
+ 576
2736
1

Grid Method (HTU x U)

346 x 7

x	300	40	6
7	2100	280	42

2100
+ 280
42
2422
1

and

276
X 3
600 (3x200)
210 (3x70)
18 (3x6)
828

26
x 12
12 (2 x 6)
40 (2 x 20)
60 (10 x 6)
200 (20 x 10)
312
1

progressing to

276
X 3
828
2 1

to be achieved by all children

Other Jottings

As Year 4 but with larger numbers

Explaining (Verbally and in Writing)

- 49 x 30 *50 x 30 = 1500, subtract 30 is 1470.*
- 15 x 12 *This is 15 x 4 x 3 = 60 x 3 = 180.*
- 400 x 80 *This is the same as 4000 x 8 = 32000*