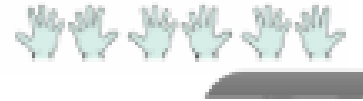


Progressive stages in Multiplication

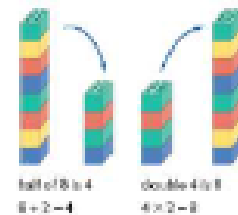
Stage 1

- ✓ Count in tens from 0
- ✓ Count in twos from 0
- ✓ Count in fives from 0



Stage 2

- ✓ Know doubles and corresponding halves of numbers to 10
- ✓ Know doubles and corresponding halves of numbers to 20
- ✓ Introduce children to the \times , $=$ and \div symbols



Stage 3

- ✓ Understand multiplication as repeated addition
- ✓ Represent repeated addition on a number line
- ✓ Understand multiplication as an array
- ✓ Represent arrays on a number line

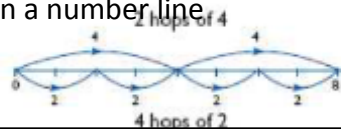
$$2 + 2 + 2 + 2$$

$$2 + 2 + 2 + 2 = 8$$

$$4 \times 2 = 10$$

2 multiplied by 4

4 lots of 2

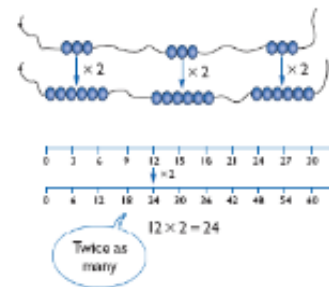


$$4 \times 2 = 8$$

$$2 \times 4 = 8$$

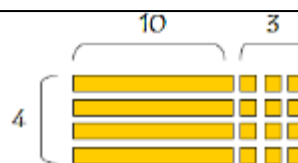
Stage 4

- ✓ To know by heart multiplication facts for the 2x, 5x and 10x tables
- ✓ Use known facts and place value to carry out mental multiplication



Stage 5

- ✓ Use place value apparatus to support $Tu \times u$
- ✓ Use place value apparatus alongside the 'grid' method to support $Tu \times u$



	10	3
4	40	12
	$40 + 12 = 52$	

Progressive stages in Multiplication

Stage 6

- ✓ Use place value alongside the 'grid' method to support TU x u
- ✓ Multiply Tu x Tu

	30	3
10	300	30
4	120	12

300
120
30
+ 12
462

= 330 +

= 132

462

	20 (2 x 10)	3
4	80	12

80 + 12 = 92	22
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