Progression in Calculations. Y3

Multiplication.

Year 3

Multiplying 2-digits by 1-digit (1)

Children use their understanding of repeated addition to represent a two-digit number multiplied by a one-digit number with concrete manipulatives. They use the formal method of column multiplication alongside the concrete representation. They also apply their understanding of partitioning to represent and solve calculations. In this step, children explore multiplication with no exchange.

Annie uses place value counters to work out 34×2

Tens	Ones
10 10 10	0000
10 10 10	0000

	Т	0
	3	4
×		2
	6	8

Use Annie's method to solve: 23 × 3 32 × 3 42 × 2

Multiplying 2-digits by 1-digit (1)

Children continue to use their understanding of repeated addition to represent a two-digit number multiplied by a one-digit number with concrete manipulatives.

They move on to explore multiplication with exchange. Each question in this step builds in difficulty.

Jack uses Base 10 to calculate 24×4

Tens	Ones



Use Jack's method to solve: 13×4

23 × 4 26 × 3

Amir uses place value counters to calculate 16 \times 4

Tens	Ones
0	000000
0	000000
0	000000
0	000000

	Т	0
	1	6
×		4
	6	4

Use Amir's method to solve:

16 × 6 17 × 5 28 × 3

Progression in Calculations. Y3

Multiplication.

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	Amir then calculates 5 × 34
	T O Use Amir's method to
	3 4 solve:
0000	36 × 6
	1 7 0 48 × 4
	1 2
•	