

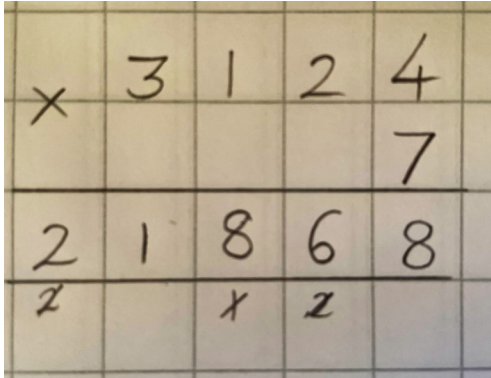
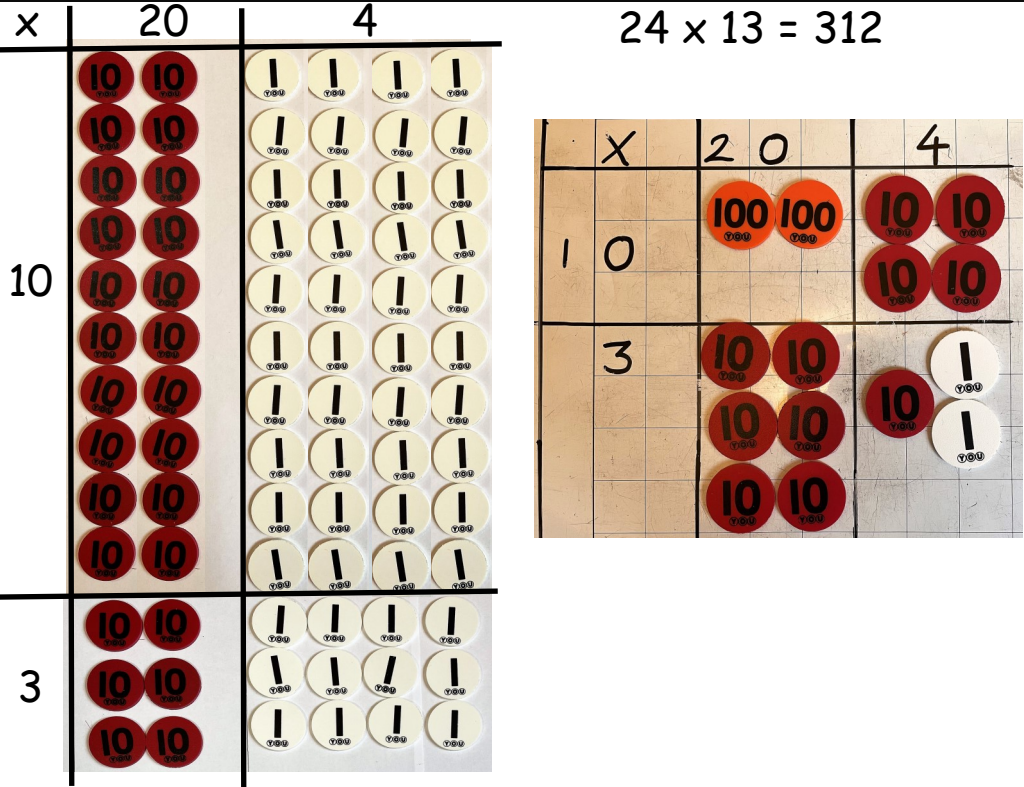
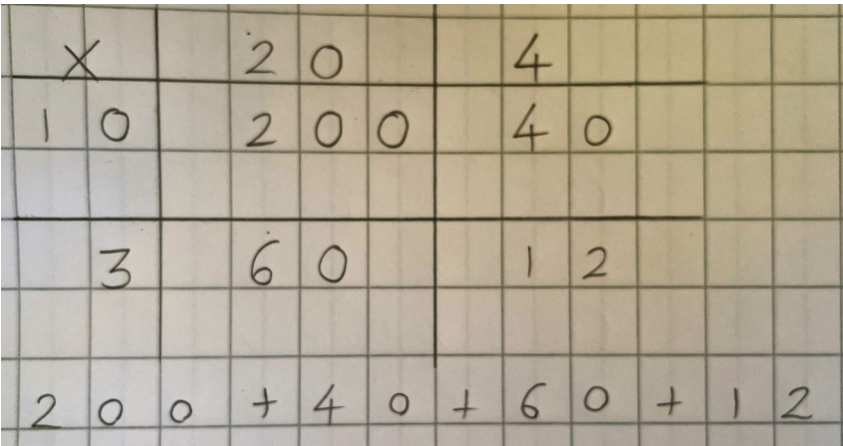
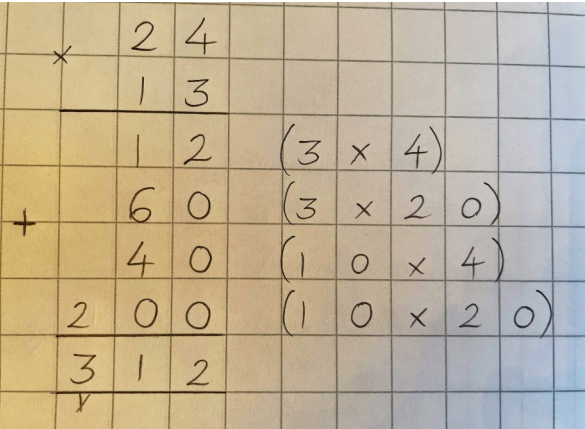
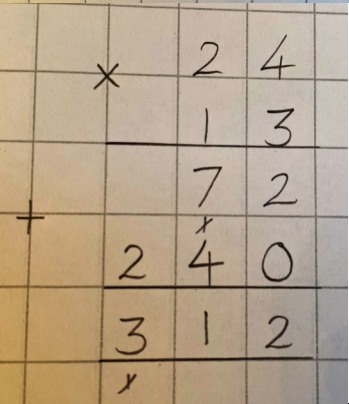
The Discovery School Calculation Policy - Year 5 Multiplication.



Additional Notes

National Curriculum Objectives

Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers. Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.

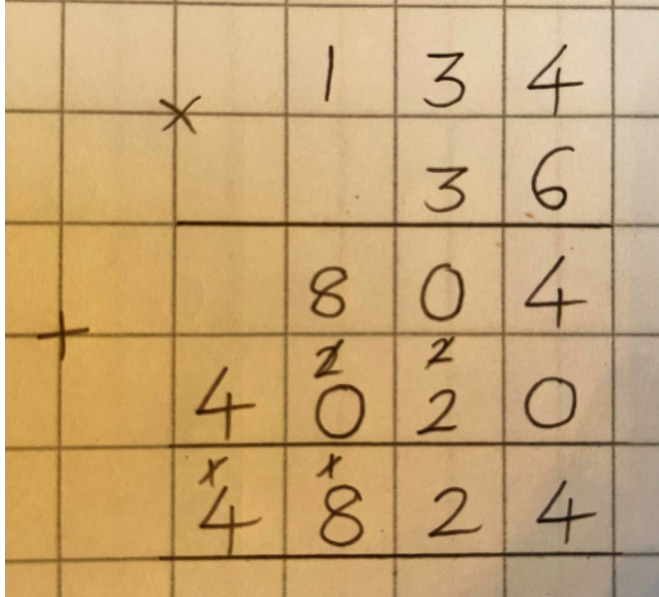
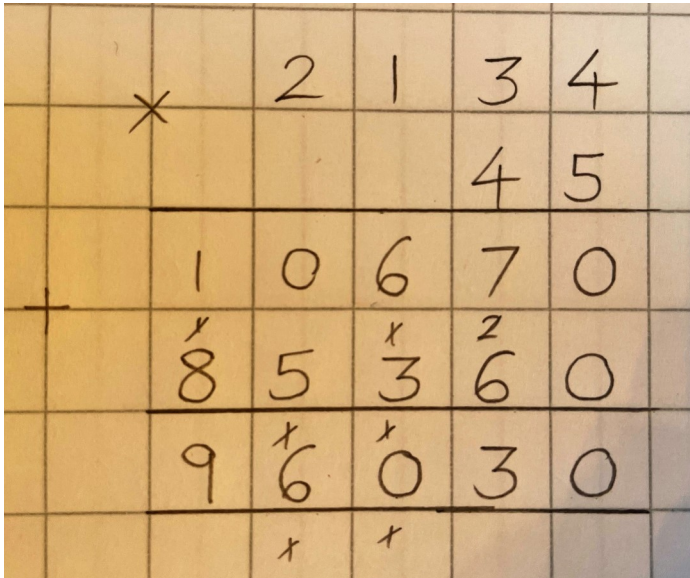
| Objec- | Concrete | Pictorial | Abstract |
|--------------------------------|---|--|--|
| Multiply 4 digits by 1 digit. | <p>The children should have gained a conceptual understanding of multiplication calculations already. Therefore, the concrete method shouldn't be needed for most children.</p> | <p>The children should have gained a conceptual understanding of multiplication calculations already. Therefore, the pictorial method shouldn't be needed for most children.</p> | <p>3,124 x 7 = 21,868</p>  |
| Multiply 2 digits by 2 digits. | <p>24 x 13 = 312</p>  | <p>24 x 13 = 312</p>  <p>= 312</p> | <p>24 x 13 = 312</p> <p>Expanded method</p>  <p>Formal written method</p>  |

The Discovery School Calculation Policy - Year 5 Multiplication.



Additional Notes

National Curriculum Objectives
Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers. Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.

| Objective | Concrete | Pictorial | Abstract |
|--------------------------------|---|--|--|
| Multiply 3 digits by 2 digits. | <p>The children should have gained a conceptual understanding of multiplication calculations already. Therefore, the concrete method shouldn't be needed for most children.</p> | <p>The children should have gained a conceptual understanding of multiplication calculations already. Therefore, the pictorial method shouldn't be needed for most children.</p> | <p>$134 \times 36 = 4,824$</p>  |
| Multiply 4 digits by 2 digits. | <p>The children should have gained a conceptual understanding of multiplication calculations already. Therefore, the concrete method shouldn't be needed for most children.</p> | <p>The children should have gained a conceptual understanding of multiplication calculations already. Therefore, the pictorial method shouldn't be needed for most children.</p> | <p>$2,134 \times 45 = 96,030$</p>  |

The Discovery School Calculation Policy - Year 6 Multiplication.



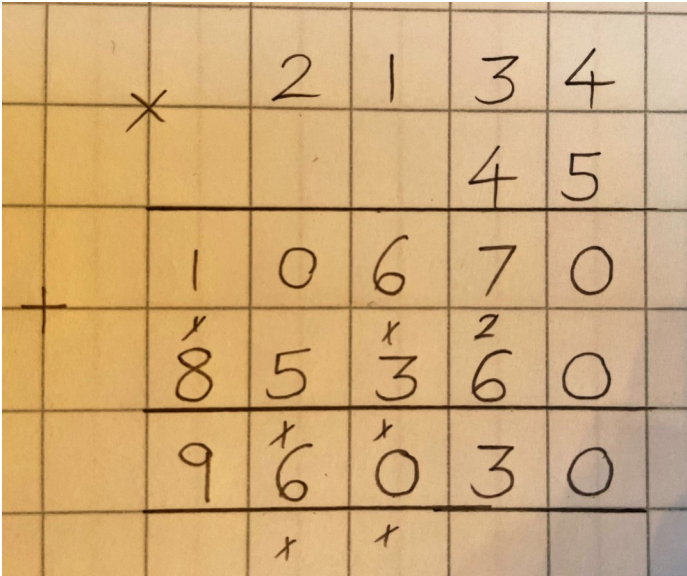
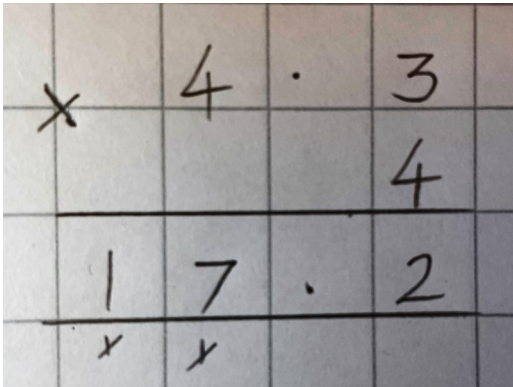
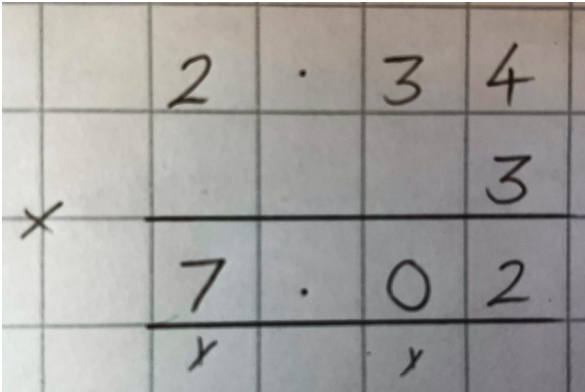
Additional Notes

Revisit Year 5 learning.

National Curriculum Objectives

Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication. Solve problems involving addition, subtraction, multiplication and division.

Multiply one-digit numbers with up to two decimal places by whole numbers. THIS IS PART OF THE DECIMALS UNIT.

| Objective | Concrete | Pictorial | Abstract |
|---|--|---|--|
| Multiply 4 digits by 2 digits. | The children should have gained a conceptual understanding of multiplication calculations already. Therefore, the concrete method shouldn't be needed for most children. | The children should have gained a conceptual understanding of multiplication calculations already. Therefore, the pictorial method shouldn't be needed for most children. | <div>2,134 x 45 = 96,030</div>  |
| THIS IS PART OF THE DECIMALS UNIT Multiply one-digit numbers with up to two decimal places by whole numbers. | The children should have gained a conceptual understanding of multiplication calculations already. Therefore, the concrete method shouldn't be needed for most children. | The children should have gained a conceptual understanding of multiplication calculations already. Therefore, the pictorial method shouldn't be needed for most children. | <div>4.3 x 4 = 17.2</div>  <div>2.34 x 3 = 7.02</div>  |