# Maths Appendix

# Mathematics Appendix 1: Examples of formal written methods for addition, subtraction, multiplication and division

This appendix sets out some examples of formal written methods for all four operations to illustrate the range of methods that could be taught. It is not intended to be an exhaustive list, nor is it intended to show progression in formal written methods. For example, the exact position of intermediate calculations (superscript and subscript digits) will vary depending on the method and format used.

For multiplication, some pupils may include an addition symbol when adding partial products. For division, some pupils may include a subtraction symbol when subtracting multiples of the divisor.

### **Addition and subtraction**

789 + 642 becomes

Answer: 1431

874 – 523 becomes

Answer: 351

932 – 457 becomes

Answer: 475

932 – 457 becomes

Answer: 475

### **Short multiplication**

 $24 \times 6$  becomes

Answer: 144

 $342 \times 7$  becomes

Answer: 2394

 $2741 \times 6$  becomes

Answer: 16 446

# Long multiplication

 $24 \times 16$  becomes

Answer: 384

 $124 \times 26$  becomes

Answer: 3224

 $124 \times 26$  becomes

Answer: 3224

## **Short division**

98 ÷ 7 becomes

Answer: 14

 $432 \div 5$  becomes

Answer: 86 remainder 2

496 ÷ 11 becomes

Answer:  $45\frac{1}{11}$ 

# Long division

432 ÷ 15 becomes

Answer: 28 remainder 12

432 ÷ 15 becomes

<u>12</u> = <u>4</u> <u>5</u>

Answer:  $28 \frac{4}{5}$ 

432 ÷ 15 becomes

Answer: 28.8