

## Investigation - addition

Work with someone in your family to find pairs of 3-digit numbers that add to 581. You can choose whether to use the expanded or compact column addition method but feel free to use the expanded method if you are making errors with the compact method.

**Clues:** both  $7 + 4$  and  $6 + 5$  add to 11, so you can use your knowledge of bonds to 11 to choose the 1s digits of both numbers. And since one 10 is exchanged, the 10s digits must add to 70 (since  $70 + 10 = 80$ ). The 100s digits must add to 500.

Examples of how to set out your work

$$245 + 443$$

### **Expanded method**

$$200+40+5$$

$$400+40+3$$

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### **Compact method**

$$245$$

$$+443$$

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