## **Schofield & Sims First Mental Arithmetic**

# Diagnostic Check marking key: First Mental Arithmetic 5

Below each set of answers you will find **Activity prompts** for helping children to overcome difficulties. Use these activities diagnostically so that you can assess when children understand the concept.

#### Reading and writing numbers to 1000 in digits and words

**1** Four hundred and ninety-two

2 83 is the same as 8 tens and 3 ones

**Activity prompt:** Write a two-digit number using numerals and check that children can write this using words. Extend to three-digit numbers. Now provide a number written with words and ask children to write this with digits. Use 'Two-spike abacus 2' to check that children understand that, for example, 71 is the same number as 7 tens and 1 one.

### Odd and even numbers



**Activity prompt:** Check that children understand that every other number, starting from zero, is even: 0, 2, 4, 6, ... Ask children to make jumps of 2 starting from zero along 'Number lines from 0 to 20'. Compare, for example, 4 and 14; 8 and 18. Explain that it is the ones digit that determines whether a number is odd or even.

#### Doubles to 20

5

32 **6** 38 **7** 28p

**Activity prompt:** Check that children know the doubles of all numbers to 10. Then ask them to calculate the double for 11. Ask: *How did you do that?* Repeat this for the other doubles of numbers to 20. Provide practice at recall of these facts during an oral and mental session.

### **Addition and subtraction**



**Activity prompt:** Ask children to explain how they made the calculations. If they are unsure, remind them that they can use 'counting on' methods for both addition and subtraction. Ask: *How would you calculate 47 add 4?* 

### Multiplication and division

12	45	14	9	16	30
13	10	15	14		

**Activity prompt:** Ask children to give some answers to questions about multiplication or division by 2, such as: *What is 5 multiplied by 2? There are 16 sweets to be shared by 2 children. How many would they have each?* Repeat this for questions about 10, then about 5. Check that children understand that if they know, for example,  $7 \times 5 = 35$ , then they can deduce that  $35 \div 5 = 7$ .