# **Spring Test 6**

### Teacher guidance

#### Skills and knowledge needed for this test:

- Addition and subtraction of two numbers with more than four digits
- Addition and subtraction of whole numbers and mixed decimals
- Addition and subtraction of fractions with multiples of the same denominator
- · Complements of 1
- Square and cube numbers
- Multiplication and division of whole numbers and decimals by 10, 100 and 1000



- Formal written method for short multiplication and short division with remainders
- Formal written method for long multiplication and long division by a two-digit number
- Multiplication of pairs of simple fractions
- Finding fractions and percentages of amounts
- Missing number calculations, including balanced calculations, with all four operations
- · Calculations with brackets

## New: Division giving the answer to two decimal places

#### A teaching suggestion



Display 137  $\div$  4 and then set out the sum for formal division. Explain that the children are going to learn to write remainders as a decimal.



First ask: 'How many fours in 1 (hundred)?'. Agree there are none and ask: 'How many fours in 13 (tens)?'. Agree that there are 3 (tens) and 1 left over. Write this in, demonstrating where to write the answers.



Now ask: 'How many fours in 17?'. Agree that there are 4 fours and 1 left over. Write in the answer and explain that the remainder will be written as a decimal. Write '.0' after the number and put the remainder 1 by it.



Demonstrate how to put a decimal point above the answer line too, and continue with the calculation. Fours into 10 go two with 2 left over, which then needs another zero to be inserted. Complete the calculation.



Ask the children for another way to write 0.25 and agree that it is equivalent to  $\frac{1}{4}$ , so the answer can be written as 34.25 (to two decimal places) or as  $34\frac{1}{4}$ . Emphasise that remainders should now be calculated as decimals.



Complete lots of examples with the children, and then encourage them to work with a partner to complete similar examples before trying the work independently.

Question number	Question	Answer	Marks	Related test
1	112 =	121	1	Y5 Autumn Test 4
2	4 × 🔲 = 32	8	1	Y4 Autumn Test 3, Y3 Spring Test 4
3	0.1 + _ = 1	0.9	1	Y5 Summer Test 4, Y3 Autumn Test 1
4	÷ 100 = 40	4000	1	Y5 Autumn Test 5, Y4 Autumn Test 3
5	6 = 24 ÷	4	1	Y4 Autumn Test 3, Y4 Spring Test 4
6	6682 × 8 =	53 456	1	Y5 Spring Test 3
7	□ ³ = 64	4	1	Y5 Spring Test 1
8	50 − 30 =	40	1	Y6 Autumn Test 4
9	= 10% of 200	20	1	Y6 Spring Test 5
10	$\frac{8}{9} - \frac{2}{3} = $	$\frac{2}{9}$ (or equiv)	1	Y5 Spring Test 6
11	25 ÷ (7 – 2) =	5	1	Y6 Spring Test 1
12	$\frac{3}{10} \times \frac{1}{5} = \square$	$\frac{3}{50}$ (or equiv)	1	Y6 Spring Test 2
13	0.012 × 10 =	0.12	1	Y6 Spring Test 3
14	$\frac{2}{7}$ of 70 =	20	1	Y6 Autumn Test 3
15		$2\frac{1}{14}$ (or equiv)	1	Y6 Autumn Test 2
16	387 ÷ 2 =	193.5	1	Y6 Spring Test 6
17	5000 - 2145 =	2855	1	Y5 Autumn Test 3
18	4.7 + 26.28 + 158.34 =	189.32	1	Y6 Autumn Test 5
19	= 3960 ÷ 8	495	1	Y5 Spring Test 5
20	273 485 - 89 916 =	183 569	1	Y5 Spring Test 4
21	8214 = \( \times 3	2738	1	Y5 Spring Test 5, Y4 Autumn Test 3
22	674 ÷ 4 =	168.5	1	Y6 Spring Test 6
23	15% of 480 =	72	1	Y6 Spring Test 5
24	÷ 3 = 784	2352	1	Y5 Spring Test 3, Y4 Autumn Test 3
25	1293 = 7000 -	5707	1	Y5 Autumn Test 3, Y3 Autumn Test 1
26	6187 ÷ 23 =	269	2*	Y6 Autumn Test 6
27	2427 × 88 =	213 576	2*	Y6 Spring Test 4
28	7321 ÷ 8 =	915.125	1	Y6 Spring Test 6
Total marks				

award 1 mark if there is one error in the working