Summer Test 2

Teacher guidance

Skills and knowledge needed for this test:

- Addition and subtraction of numbers with different numbers of digits, including decimals
- Addition and subtraction of fractions with multiples of the same denominator
- Multiplication and division to 12 × 12 including derivatives of multiples of 100
- Multiplication of three numbers
- Multiplication by 0; multiplication and division by 1; square and cube numbers
- Short multiplication of up to four digits by a single-digit number
- Short division of a four-digit number by a single-digit number, including with remainders
- Multiplication and division of whole numbers or decimals by 10, 100 or 1000
- Missing number statements with all four operations

New: Long multiplication of up to four digits by a two-digit number

A teaching suggestion

Step 1 Explain that the formal method of long multiplication is like doing three calculations but only having to write one!
Display:

$$\begin{array}{r} 341 \\ \times\ 25 \\ \hline \end{array}$$

Step 2 Demonstrate that you start by multiplying by the ones for the first calculation, so 5 × 341 = 1705.

$$\begin{array}{r} 341 \\ \times\ 25 \\ \hline 1705 \\ {\scriptstyle 2} \end{array}$$

Step 3 Explain that the second calculation is multiplying by the tens. Emphasise that you are multiplying by 20 (not by 2), so 20 × 341 = 6820.

$$\begin{array}{r} 341 \\ \times\ 25 \\ \hline 1705 \\ 6820 \end{array}$$

Step 4 Finally, demonstrate the third calculation where the answers to the other two parts are added together, so 1705 + 6820 = 8525.

$$\begin{array}{r} 341 \\ \times\ 25 \\ \hline 1705 \\ +6820 \\ \hline 8525 \\ {\scriptstyle 1} \end{array}$$

Step 5 Work through lots of examples with the children, and then allow them to work with a partner before trying the calculations independently.

Question number	Question	Answer	Marks	Related test
1	$6 \times 11 = \square$	66	1	Y4 Autumn Test 5, Y4 Spring Test 4
2	$32 = \square + 20$	12	1	Y3 Autumn Test 1, Y3 Autumn Test 3
3	$55 \div 2 = \square$	27 r1	1	Y5 Autumn Test 6
4	$\square = 15 \times 0$	0	1	Y4 Autumn Test 4
5	$32 \times 1 = \square$	32	1	Y4 Autumn Test 6
6	$200 \times 100 = \square$	20 000	1	Y5 Autumn Test 5
7	$35 \div 7 = \square$	5	1	Y4 Spring Test 6
8	$\frac{16}{7} - \frac{2}{7} = \square$	2 (or equiv)	1	Y5 Autumn Test 2
9	$\square = 622 - 344$	278	1	Y4 Spring Test 3
10	$11^2 = \square$	121	1	Y5 Autumn Test 4
11	$\frac{1}{2} + \frac{3}{4} = \square$	$1\frac{1}{4}$ (or equiv)	1	Y5 Spring Test 6
12	$84 = \square \times 6$	14	1	Y4 Autumn Test 3, Y4 Spring Test 2
13	$8^3 = \square$	512	1	Y5 Spring Test 1
14	$24.35 + 8.82 = \square$	33.17	1	Y5 Summer Test 1
15	$4265 \times 6 = \square$	25 590	1	Y5 Spring Test 3
16	$7314 \div 2 = \square$	3657	1	Y5 Spring Test 5
17	$\square = 6 + 482 + 74$	562	1	Y5 Spring Test 4
18	$6 \times 321 \times 50 = \square$	96 300	1	Y4 Summer Test 3
19	$\frac{1}{6} + \frac{5}{12} = \square$	$\frac{7}{12}$ (or equiv)	1	Y5 Spring Test 6
20	$\square = 73.1 - 5.52$	67.58	1	Y5 Summer Test 1
21	$5004 - 1456 = \square$	3548	1	Y5 Autumn Test 3
22	$36 \times 24 = \square$	864	2*	Y5 Summer Test 2
23	$3735 - 295 = \square$	3440	1	Y5 Spring Test 4
24	$9.2 \div 1000 = \square$	0.0092	1	Y5 Spring Test 2
25	$\square = 46 + 8.7$	54.7	1	Y5 Summer Test 1
26	$3426 - \square = 1551$	1875	1	Y4 Spring Test 3, Y3 Autumn Test 1
27	$6012 \div 9 = \square$	668	1	Y5 Spring Test 5
28	$715 \times 49 = \square$	35 035	2*	Y5 Summer Test 2
		Total marks	**30**	

* award 1 mark if there is one error in the working