Autumn Test 6

Teacher guidance

Skills and knowledge needed for this test:

- Addition and subtraction of two numbers up to four digits
- Addition and subtraction of fractions with 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 numbers
- Formal written method for short multiplication (to HTO) and short division (to TO)
- Multiplication and division of whole numbers by 10, 100 or 1000
- Missing number statements with all four operations

New: Division with remainders

A teaching suggestion

Step 1 Display 77 ÷ 3 and then set out the sum for formal division.

$$3 \overline{)\,77}$$

Step 2 First ask, 'How many threes in 7 (tens)?' Agree that 7 tens has two groups of 3 tens and 1 ten left over. Write this in, demonstrating where to write the answers.

Step 3 Now ask: 'How many threes in 17?' and agree that there are 5 threes and 2 left over. Demonstrate how to write the remainder.

$$\begin{array}{r} 2\ \ 5\ \text{r}2 \\ 3 \overline{)\,7\ \ {}^{1}7} \end{array}$$

Step 4 Make connections with other ways to write the remainder, e.g. $25\frac{2}{3}$, 25.667, if appropriate and accept correct answers giving remainders in these ways.

Step 5 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	$\frac{1}{3}$ of 6 = □	2	1	Y2 Summer Test 5
2	□ × 10 = 70	7	1	Y4 Autumn Test 3, Y2 Autumn Test 3
3	29 ÷ 1 = □	29	1	Y4 Autumn Test 6
4	□ = 351 − 146	205	1	Y4 Spring Test 3
5	$\frac{7}{5} - \frac{2}{5}$ = □	1 (or equiv)	1	Y5 Autumn Test 2
6	17 × 0 = □	0	1	Y4 Autumn Test 4
7	39 + 48 = □	87	1	Y4 Spring Test 1
8	□ = 602 − 295	307	1	Y5 Autumn Test 3
9	45 ÷ 9 = □	5	1	Y4 Spring Test 2
10	3 ÷ 10 = □	0.3	1	Y5 Autumn Test 1
11	□ = 700 × 4	2800	1	Y4 Spring Test 6, Y4 Summer Test 5
12	426 × 6 = □	2556	1	Y4 Summer Test 1
13	8^2 = □	64	1	Y5 Autumn Test 4
14	6 × 31 × 5 = □	930	1	Y4 Summer Test 3
15	396 = □ − 521	917	1	Y4 Spring Test 1, Y3 Autumn Test 1
16	$\frac{3}{8} + \frac{10}{8}$ = □	$1\frac{5}{8}$ (or equiv)	1	Y5 Autumn Test 2
17	81 = $□^2$	9	1	Y5 Autumn Test 4, Y4 Autumn Test 3
18	7 × 1000 = □	7000	1	Y5 Autumn Test 5
19	1457 + 7255 = □	8712	1	Y4 Spring Test 1
20	$\frac{3}{4}$ of 60 = □	45	1	Y3 Autumn Test 4
21	87 ÷ 5 = □	17 r2	1	Y5 Autumn Test 6
22	400 − 246 = □	154	1	Y5 Autumn Test 3
23	36 = □ ÷ 4	144	1	Y4 Autumn Test 1, Y4 Autumn Test 3
24	654 ÷ 100 = □	6.54	1	Y5 Autumn Test 5
25	75 ÷ 4 = □	18 r3	1	Y5 Autumn Test 6
		Total marks	**25**	