Spring Test 1

Teacher guidance

30 minutes

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
- Finding fractions of amounts
- Missing number calculations, including balanced calculations, with all four operations

New: Calculations with brackets

A teaching suggestion

Step 1 Display $2 \times 3 + 4 =$ and work through together: $2 \times 3 + 4 = 6 + 4 = 10$

Step 2 Now display $2 \times (3 + 4) =$ and discuss how this is similar and different to the first sum.

Step 3 Explain that the brackets are like two arms held up, pointing inwards and saying: 'Do me first!'. Get the children to raise their arms and call out: 'Do me first!'.

Step 4 Look back at $2 \times (3 + 4) =$ and agree that the brackets are saying: 'Do me first!'. So do this part of the calculation first: $2 \times (3 + 4) = 2 \times 7 = 14$

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

Question number	Question	Answer	Marks	Related test
1	$\square \times 6 = 24$	4	1	Y4 Autumn Test 3, Y4 Spring Test 4
2	$1 = 0.4 + \square$	0.6	1	Y5 Summer Test 4
3	$5^2 = \square$	25	1	Y5 Autumn Test 4
4	$320 \times \square = 3200$	10	1	Y5 Autumn Test 5, Y4 Autumn Test 3
5	$\square = 7534 \div 4$	1883 r2	1	Y5 Autumn Test 6
6	$64 = \square^2$	8	1	Y5 Autumn Test 4
7	$643.1 \div 10 = \square$	64.31	1	Y5 Spring Test 2
8	$7 + 6 = \square - 5$	18	1	Y6 Autumn Test 4
9	$\square = \frac{5}{6}$ of 48	40	1	Y6 Autumn Test 3
10	$\frac{1}{4} + \frac{5}{12} = \square$	$\frac{8}{12}$ (or equiv)	1	Y5 Spring Test 6
11	$6^3 = \square$	216	1	Y5 Spring Test 1
12	$78.341 \times 1000 = \square$	78 341	1	Y5 Spring Test 2
13	$\frac{7}{8} + \frac{3}{4} = \square$	$1\frac{5}{8}$ (or equiv)	1	Y6 Autumn Test 2
14	$9 - (5 + 2) = \square$	2	1	Y6 Spring Test 1
15	$6285 \times 9 = \square$	56 565	1	Y5 Spring Test 3
16	$6001 - 3125 = \square$	2876	1	Y5 Autumn Test 3
17	$4655 \div 7 = \square$	665	1	Y5 Spring Test 5
18	$48.7 = 3.48 + \square$	45.22	1	Y6 Autumn Test 5, Y3 Autumn Test 1
19	$\square = 3 \times (4 + 2)$	18	1	Y6 Spring Test 1
20	$900 - \square = 642$	258	1	Y5 Autumn Test 3, Y3 Autumn Test 1
21	$7056 = \square \times 8$	882	1	Y5 Spring Test 5, Y4 Autumn Test 3
22	$20 \div (4 + 1) = \square$	4	1	Y6 Spring Test 1
23	$\square = 68.1 - 9.62$	58.48	1	Y6 Autumn Test 5
24	$7128 \div 22 = \square$	324	2*	Y6 Autumn Test 6
25	$733\,268 + 92 + 3785 = \square$	737 145	1	Y5 Spring Test 4
26	$7434 \div 42 = \square$	177	2*	Y6 Autumn Test 6
27	$376 \times 59 = \square$	22 184	2*	Y6 Autumn Test 1
	Total marks		**30**	

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