Spring Test 1

28 minutes

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), including with remainders
- Multiplication and division of whole numbers by 10, 100 or 1000
- Missing number statements with all four operations

New: Cube numbers

A teaching suggestion

Step 1 Give the children cubes to use. Discuss the properties of a cube and agree that all the faces are square and that all the edges are the same length.

Step 2 Use eight single cubes to build a 2 × 2 × 2 cube and count the cubes that you used. Show that it has two rows, two columns and two layers, and that 2 × 2 × 2 = 8.

Step 3 Ask the children to investigate other cubes that they can build and to make a table of their results.

Rows	Columns	Layers	Number of cubes
2	2	2	8

Step 4 Collect and display the results and explain that these numbers are called 'cube numbers' because they make a cube! (Using cubes to investigate cube numbers makes the concept and mathematical vocabulary more memorable for children.)

Step 5 Introduce the notation 3^3 for 3 multiplied by itself 3 times (hence the ^{3}) where $3^3 = 3 \times 3 \times 3 = 27$.

Question number	Question	Answer	Marks	Related test
1	19 × 1 = ☐	19	1	Y4 Autumn Test 6
2	☐ = 35 ÷ 7	5	1	Y4 Spring Test 6
3	473 × 100 = ☐	47 300	1	Y5 Autumn Test 5
4	4^2 = ☐	16	1	Y5 Autumn Test 4
5	701 − 523 = ☐	178	1	Y5 Autumn Test 3
6	9 ÷ 10 = ☐	0.9	1	Y5 Autumn Test 5
7	2 × 0 = ☐	0	1	Y4 Autumn Test 4
8	$\frac{17}{10} - \frac{9}{10}$ = ☐	$\frac{8}{10}$ (or equiv)	1	Y5 Autumn Test 2
9	☐ = 28 ÷ 1	28	1	Y4 Autumn Test 6
10	12^2 = ☐	144	1	Y5 Autumn Test 4
11	☐ × 6 = 72	12	1	Y4 Autumn Test 3, Y4 Spring Test 4
12	444 = 732 − ☐	288	1	Y4 Spring Test 3, Y3 Autumn Test 1
13	$\frac{2}{4}$ of 20 = ☐	10	1	Y3 Autumn Test 4
14	6314 + 2789 = ☐	9103	1	Y4 Spring Test 1
15	$\frac{5}{6} + \frac{5}{6}$ = ☐	$1\frac{4}{6}$ (or equiv)	1	Y5 Autumn Test 2
16	400 × 8 = ☐	3200	1	Y4 Summer Test 5, Y3 Summer Test 3
17	☐ = $\frac{1}{3}$ of 42	14	1	Y2 Summer Test 5
18	146 × 7 = ☐	1022	1	Y4 Summer Test 1
19	6512 − 1826 = ☐	4686	1	Y4 Spring Test 3
20	98 ÷ 6 = ☐	16 r2	1	Y5 Autumn Test 6
21	5 × 46 × 2 = ☐	460	1	Y4 Summer Test 3
22	48 = ☐ ÷ 8	384	1	Y4 Autumn Test 3, Y3 Summer Test 3
23	2^3 = ☐	8	1	Y5 Spring Test 1
24	☐ + 492 = 781	289	1	Y4 Spring Test 3, Y3 Autumn Test 1
25	324 ÷ 100 = ☐	3.24	1	Y5 Autumn Test 5
26	896 × 9 = ☐	8064	1	Y4 Summer Test 1
27	8000 − 2145 = ☐	5855	1	Y5 Autumn Test 3
28	☐ = 5^3	125	1	Y5 Spring Test 1
		Total marks	**28**	