Summer Test 3

Teacher guidance

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Skills and knowledge needed for this test:

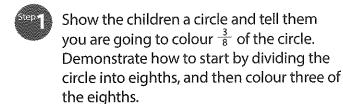
- Addition and subtraction of numbers with different numbers of digits, including decimals
- Addition and subtraction of fractions with multiples of the same denominator
- Multiplication and division to 12 × 12 including derivatives of multiples of 100
- Multiplication of three numbers
- Multiplication by 0; multiplication and division by 1; square and cube numbers



- Multiplication of up to four digits by a single-digit or a two-digit number
- 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: Finding fractions of amounts

A teaching suggestion



- Repeat with other fractions (e.g. for $\frac{5}{6}$ divide the shape into sixths and then colour five of the sixths).
- When the children are confident, use a number instead of a shape. Find $\frac{3}{8}$ of 40. Start by dividing 40 into eighths: $40 \div 8 = 5$. So each eighth is worth 5 and we want three of them. $5 \times 3 = 15$, so $\frac{3}{8}$ of 40 = 15.
- Emphasise that this means there are two steps to the calculation: first they divide and then they multiply (e.g. $\frac{2}{5}$ of 30 is $30 \div 5 = 6$, then $6 \times 2 = 12$).
- Work through lots of examples together until the children understand the process.
- Introduce the chant: 'Divide by the bottom and times by the top!'. This is a good process aid to use once the children understand fully what is happening in the calculation.
- Complete lots of examples with the children. Allow them to work with a partner before trying the work independently.

Question number	Question	Answer	Marks	Related test
1	7 ÷ 1 =	7	1	Y4 Autumn Test 6
2	48 ÷ 12 =	4	1	Y4 Summer Test 2
3	= 4 × 11	44	1	Y4 Autumn Test 5
4	30 × 0 =	0	1	Y4 Autumn Test 4
5	9000 ÷ 10 =	900	1	Y5 Autumn Test 5
6	50 = 17 +	33	1	Y3 Autumn Test 1, Y3 Autumn Test 3
7	$\frac{1}{6}$ of 12 =	2	1	Y5 Summer Test 3
8	<u> </u>	346	1	Y4 Spring Test 3
9	$\frac{1}{5} + \frac{3}{10} = $	5 10 (or equiv)	1	Y5 Spring Test 6
10	10³ =	1000	1	Y5 Spring Test 1
11	30 = X 6	5	1	Y4 Autumn Test 3, Y4 Spring Test 4
12	9² =	81	1	Y5 Autumn Test 4
13	$\frac{3}{5}$ of 25 =	15	1	Y5 Summer Test 3
14	= 700 - 263	437	1	Y5 Autumn Test 3
15	5358 + 48 =	5406	1	Y5 Spring Test 4
16	× 70 = 490	7	1	Y4 Autumn Test 3, Y4 Summer Test 5
17	17.25 — 8.36 =	8.89	1	Y5 Summer Test 1
18	4156 × 5 =	20 780	1	Y5 Spring Test 3
19	$\frac{4}{7}$ of 56 =	32	1	Y5 Summer Test 3
20	= 3.642 × 10	36.42	1	Y5 Spring Test 2
21	$\frac{2}{3} - \frac{4}{15} = $	6 15 (or equiv)	7	Y5 Spring Test 6
22	7328 ÷ 8 =	916	1	Y5 Spring Test 5
23	67 + 7.3 =	74.3	1	Y5 Summer Test 1
24	$\frac{5}{9}$ of 198 =	110	1	Y5 Summer Test 3
25	326 × 16 =	5216	2"	Y5 Summer Test 2
26	50 × 273 × 2 =	27 300	1	Y4 Summer Test 3
27	386 = 473	859	1	Y4 Spring Test 1, Y3 Autumn Test 1
28	647 × 82 =	53 054	2*	Y5 Summer Test 2
Total marks 30				

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