

Summer Test 5



Teacher guidance

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 different denominators and mixed numbers
- Complements of 1
- Multiplication and division of whole numbers and decimals by 10, 100 and 1000
- Multiplication of a one-digit number with up to two decimal places by a whole number
- Formal written method for short multiplication and short division with decimal remainders
- Formal written method for long multiplication and long division by a two-digit number
- Multiplication of pairs of simple fractions
- Finding fractions and percentages of amounts
- Square and cube numbers
- Missing number calculations, including balanced calculations, with all four operations
- Calculations with brackets and the order of operations (BIDMAS)

New: Division of proper fractions by a whole number

A teaching suggestion

- Step 1** Display $\frac{1}{3} \div 2 = \square$ and a circle cut into thirds. Hold up one third and ask the children to discuss what they are being asked to do. Agree that they are being asked to cut the third into two pieces.
- Step 2** Cut the third into two pieces and agree that this is a sixth. Match up to a circle cut into sixths to demonstrate that this is correct.
- Step 3** Write $\frac{1}{3} \div 2 = \frac{1}{6}$ and emphasise the relationship of $3 \times 2 = 6$.
- Step 4** Display $\frac{2}{5} \div 3 = \square$ and a circle cut into fifths. Hold up two fifths and ask the children to discuss what they are being asked to do. Agree that they are being asked to cut each fifth into three equal pieces.
- Step 5** Cut each of the fifths into three equal pieces and agree that these are fifteenths. Match up to a circle cut into fifteenths to demonstrate that this is correct.
- Step 6** Write $\frac{2}{5} \div 3 = \frac{2}{15}$ and emphasise the relationship of $5 \times 3 = 15$.
- Step 7** Complete examples together until the children are confident that they multiply the denominator by the divisor.

Question number	Question	Answer	Marks	Related test
1	$\square = 412 \div 1$	412	1	Y4 Autumn Test 6
2	$72 \div \square = 12$	6	1	Y4 Autumn Test 3, Y4 Summer Test 2
3	$90 \times \square = 9000$	100	1	Y5 Autumn Test 5, Y4 Autumn Test 3
4	$\square + 0.6 = 1$	0.4	1	Y5 Summer Test 4, Y3 Autumn Test 1
5	$10 \times (11 + 5) = \square$	160	1	Y6 Spring Test 1
6	$132 = \square \times 11$	12	1	Y4 Autumn Test 3, Y4 Autumn Test 5
7	$22 + \square = 5 \times 6$	8	1	Y6 Autumn Test 4
8	$\frac{3}{4} + \frac{2}{8} = \square$	1 (or equiv)	1	Y5 Spring Test 6
9	$1622 = 3000 - \square$	1378	1	Y5 Autumn Test 3, Y3 Autumn Test 1
10	$\frac{3}{8} + \frac{3}{2} = \square$	$1\frac{7}{8}$ (or equiv)	1	Y6 Autumn Test 2
11	$1478.264 \div 1000 = \square$	1.478264	1	Y6 Spring Test 3
12	$\frac{2}{5} \times \frac{3}{4} = \square$	$\frac{3}{10}$ (or equiv)	1	Y6 Spring Test 2
13	$\square = \frac{4}{7}$ of 42	24	1	Y6 Autumn Test 3
14	$382 - 4935 + 78\,529 = \square$	73\,976	1	Y6 Summer Test 1, Y5 Spring Test 4
15	$0.3 \times 3 = \square$	0.9	1	Y6 Summer Test 4
16	$\frac{1}{2} + \frac{1}{7} = \square$	$\frac{9}{14}$ (or equiv)	1	Y6 Summer Test 2
17	$40 - (3 + 5^2) \div 4 = \square$	33	1	Y6 Summer Test 1
18	$637.2 - 28.35 + 8.8 = \square$	617.65	1	Y6 Summer Test 1, Y6 Autumn Test 5
19	$713 \div 5 = \square$	142.6	1	Y6 Spring Test 6
20	$\square = \frac{1}{4} \div 2$	$\frac{1}{8}$ (or equiv)	1	Y6 Summer Test 5
21	15% of 900 = \square	135	1	Y6 Spring Test 5
22	$4\frac{4}{6} - 3\frac{5}{8} = \square$	$\frac{5}{6}$ (or equiv)	1	Y6 Summer Test 3
23	$0.04 \times 2 = \square$	0.08	1	Y6 Summer Test 4
24	$\frac{1}{2} \div 3 = \square$	$\frac{1}{6}$ (or equiv)	1	Y6 Summer Test 5
25	$3456 \div 27 = \square$	128	2*	Y6 Autumn Test 6
26	$4\frac{3}{9} - 2\frac{7}{9} = \square$	$7\frac{1}{9}$ (or equiv)	1	Y6 Summer Test 3
27	$\frac{2}{7} \div 5 = \square$	$\frac{2}{35}$ (or equiv)	1	Y6 Summer Test 5
28	$2195 \times 58 = \square$	127\,310	2*	Y6 Spring Test 4
Total marks			30	

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