

# Spring Test 3

## 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  $12 \times 12$  including derivatives of multiples of 100
- Multiplication of three numbers
- Multiplication by 0; multiplication and division by 1; square and cube numbers
- Formal written method for short multiplication (to HTO) and short division (to TO), including with remainders
- Multiplication and division of whole numbers or decimals by 10, 100 or 1000
- Missing number statements with all four operations

### New: Multiplication of up to four digits by a single-digit number

#### A teaching suggestion

**Step 1** The children are already familiar with  $HTO \times O$  (see Y4 Summer Test 1).  
Display:

$$\begin{array}{r} 7587 \\ \times \quad 5 \\ \hline \end{array}$$

**Step 2** Remind the children to work with the ones column first.  $5 \times 7$  is 35, so write the 35 with the 3 in the tens column and the 5 in the ones column (so it still reads as 35).

$$\begin{array}{r} 7587 \\ \times \quad 5 \\ \hline \quad 35 \\ \hline \end{array}$$

**Step 3** Next multiply the tens by 5, giving 40 tens, and then add in the extra 3, giving 43 tens. Write the answer, making sure it still reads as 43.

$$\begin{array}{r} 7587 \\ \times \quad 5 \\ \hline \quad 35 \\ \quad 43 \phantom{0} \\ \hline \end{array}$$

**Step 4** Complete the calculation in the same way. After the last multiplication, put the carry figure of 3 into the answer line, giving the final answer 37 935.

**Step 5** Do lots of examples with the children, then encourage them to work with a partner to complete similar calculations. When they are confident, let them work independently.

Question number	Question	Answer	Marks	Related test
1	$5 \div 1 = \square$	5	1	Y4 Autumn Test 6
2	$\square = 6 \times 3$	18	1	Y4 Spring Test 4
3	$10 \times 0 = \square$	0	1	Y4 Autumn Test 4
4	$1^3 = \square$	1	1	Y5 Spring Test 1
5	$4000 \div 100 = \square$	40	1	Y5 Autumn Test 5
6	$36 \times 1 = \square$	36	1	Y4 Autumn Test 6
7	$4 = \square \div 7$	28	1	Y4 Autumn Test 5, Y4 Spring Test 6
8	$681 - 268 = \square$	413	1	Y4 Spring Test 3
9	$\square = \frac{6}{9} + \frac{4}{9}$	$1\frac{1}{9}$ (or equiv)	1	Y5 Autumn Test 2
10	$7^2 = \square$	49	1	Y5 Autumn Test 4
11	$8 \times 12 = \square$	96	1	Y4 Summer Test 2, Y3 Summer Test 3
12	$600 - 251 = \square$	349	1	Y5 Autumn Test 3
13	$900 \times 4 = \square$	3600	1	Y4 Summer Test 5
14	$100 = \square^2$	10	1	Y5 Autumn Test 4
15	$53 \div 4 = \square$	13 r1	1	Y5 Autumn Test 6
16	$6175 \times 2 = \square$	12 350	1	Y5 Spring Test 3
17	$4281 + \square = 6153$	1872	1	Y4 Spring Test 1, Y3 Autumn Test 1
18	$6 \times 41 \times 5 = \square$	1230	1	Y4 Summer Test 3
19	$4^3 = \square$	64	1	Y5 Spring Test 1
20	$\square = \frac{3}{4}$ of 84	63	1	Y3 Autumn Test 4
21	$6.24 \times 10 = \square$	62.4	1	Y5 Spring Test 2
22	$3847 = \square - 1965$	5812	1	Y4 Spring Test 1, Y3 Autumn Test 1
23	$4185 \times 5 = \square$	20 925	1	Y5 Spring Test 3
24	$98 \div 8 = \square$	12 r2	1	Y5 Autumn Test 6
25	$4002 - 1463 = \square$	2539	1	Y5 Autumn Test 3
26	$9 \times \square = 234$	26	1	Y4 Autumn Test 2, Y4 Autumn Test 3
27	$\square = 63.2 \div 1000$	0.0632	1	Y5 Spring Test 2
28	$7346 \times 6 = \square$	44 076	1	Y5 Spring Test 3
<b>Total marks</b>			<b>28</b>	