

Spring Test 1

Name: Class: Date:

1	$19 \times 1 =$ <input type="text"/>	<input type="checkbox"/>
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2	<input type="text"/> $= 35 \div 7$	<input type="checkbox"/>
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3	$473 \times 100 =$ <input type="text"/>	<input type="checkbox"/>
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4	$4^2 =$ <input type="text"/>	<input type="checkbox"/>
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5	$701 - 523 =$ <input type="text"/>	<input type="checkbox"/>
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6	$9 \div 10 =$ <input type="text"/>	<input type="checkbox"/>
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7	$2 \times 0 =$ <input type="text"/>	<input type="checkbox"/>
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8	$\frac{17}{10} - \frac{9}{10} =$ <input type="text"/>	<input type="checkbox"/>
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9	<input type="text"/> $= 28 \div 1$	<input type="checkbox"/>
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10	$12^2 =$ <input type="text"/>	<input type="checkbox"/>
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11	<input type="text"/> $\times 6 = 72$	<input type="checkbox"/>
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12	$444 = 732 -$ <input type="text"/>	<input type="checkbox"/>
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13	$\frac{2}{4}$ of 20 = <input type="text"/>	<input type="checkbox"/>
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14	$\begin{array}{r} 6314 \\ + 2789 \\ \hline \end{array}$	<input type="checkbox"/>
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15	$\frac{5}{6} + \frac{5}{6} =$ <input type="text"/>	<input type="checkbox"/>
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16	$400 \times 8 =$ <input type="text"/>	<input type="checkbox"/>
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Spring Test 1 (continued)

17	<input style="width: 100%;" type="text"/> = $\frac{1}{3}$ of 42	<input type="checkbox"/>
18	$\begin{array}{r} 146 \\ \times \quad 7 \\ \hline \end{array}$	<input type="checkbox"/>
19	$6512 - 1826 =$ <input style="width: 100%;" type="text"/>	<input type="checkbox"/>
20	$6 \overline{)98}$	<input type="checkbox"/>
21	$5 \times 46 \times 2 =$ <input style="width: 100%;" type="text"/>	<input type="checkbox"/>
22	$48 =$ <input style="width: 100%;" type="text"/> $\div 8$	<input type="checkbox"/>
23	$2^3 =$ <input style="width: 100%;" type="text"/>	<input type="checkbox"/>
24	<input style="width: 100%;" type="text"/> + 492 = 781	<input type="checkbox"/>
25	$324 \div 100 =$	<input type="checkbox"/>
26	$\begin{array}{r} 896 \\ \times \quad 9 \\ \hline \end{array}$	<input type="checkbox"/>
27	$\begin{array}{r} 8000 \\ - 2145 \\ \hline \end{array}$	<input type="checkbox"/>
28	<input style="width: 100%;" type="text"/> = 5^3	<input type="checkbox"/>

Total marks	/28
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How well did you do?

Colour the numbers of the questions you got correct.

- with zeros	5	27																
Multiples of tables	16																	
Square and cube numbers	4	10	23	28														
÷ or x by 10, 100 or 1000	3	6	25															
Short x	18	22	26															
Short ÷, including r	17	20																
Fractions	8	13	15	17														
Missing numbers	11	12	22	24														
+	14	15																
-	5	8	12	19	24	27												
x	1	3	4	7	10	13	16	18	21	23	26	28						
÷	2	6	9	11	13	17	20	22	25									

Spring Test 1

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 $2 \times 2 \times 2$ cube and count the cubes that you used. Show that it has two rows, two columns and two layers, and that $2 \times 2 \times 2 = 8$.

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

Spring Test 2

Name: Class: Date:

1	$0 \times 6 =$ <input type="text"/>	<input type="checkbox"/>
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2	<input type="text"/> $= 13 \times 1$	<input type="checkbox"/>
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3	$32 \times 10 =$ <input type="text"/>	<input type="checkbox"/>
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4	$4 \div 10 =$ <input type="text"/>	<input type="checkbox"/>
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5	$7 \times$ <input type="text"/> $= 21$	<input type="checkbox"/>
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6	$\frac{10}{4} - \frac{6}{4} =$ <input type="text"/>	<input type="checkbox"/>
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7	$100 \div 1 =$ <input type="text"/>	<input type="checkbox"/>
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8	$315 + 486 =$ <input type="text"/>	<input type="checkbox"/>
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9	<input type="text"/> $\times 400 = 1600$	<input type="checkbox"/>
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10	<input type="text"/> $= 7139 - 2436$	<input type="checkbox"/>
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11	$6^2 =$ <input type="text"/>	<input type="checkbox"/>
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12	$73 \times 1000 =$ <input type="text"/>	<input type="checkbox"/>
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13	$\begin{array}{r} 900 \\ - 702 \\ \hline \end{array}$	<input type="checkbox"/>
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14	$\begin{array}{r} 365 \\ \times \quad 8 \\ \hline \end{array}$	<input type="checkbox"/>
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15	<input type="text"/> $= 2700 \div 3$	<input type="checkbox"/>
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16	$7873 + 1948 =$ <input type="text"/>	<input type="checkbox"/>
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Spring Test 2 (continued)

17 $2 \overline{)75}$

18 $\frac{4}{7} + \frac{6}{7} =$

19 $730 =$ $\times 5$

20 $21 \times 5 \times 8 =$

21 $3^3 =$

22 $9621 -$ $= 3288$

23 $6.1 \times 100 =$

24 $7 \overline{)94}$

25 $= 8^2$

26 $9 = 198 \div$

27
$$\begin{array}{r} 4004 \\ - 1265 \\ \hline \end{array}$$

28 $26.3 \div 100 =$

Total marks **/28**

How well did you do?

Colour the numbers of the questions you got correct.

- with zeros	13	27								
Multiples of tables	9	15								
Square and cube numbers	11	21	25							
÷ or x by 10, 100 or 1000	3	4	12	23	28					
Short x	14									
Short ÷, including r	17	19	24	26						
Fractions	6	18								
Missing numbers	5	9	19	22	26					
+	8	16	18							
-	6	10	13	22	27					
x	1	2	3	11	12	14	20	21	23	25
÷	4	5	7	9	15	17	19	24	26	28

Spring Test 2

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: Multiplication and division of decimals by 10, 100 or 1000

A teaching suggestion

Step 1 Use a fixed decimal point and digit cards that can be moved to illustrate the method.

Step 2 When multiplying by 10, 100 and 1000, the digits in the number move left to give an answer that is bigger than the original number. When dividing by 10, 100 and 1000, the digits in the number move right to give an answer that is smaller than the original number.

Step 3 Display 4.56×1000 . Establish that the number will become 1000 times bigger. This means that the digits in the number move three columns to the left.

Move 1 = 45.6

Move 2 = 456.

Move 3 = 456__, so the empty space is filled with a zero giving 4560.

which is shown as

Th H T O . t h becomes Th H T O . t h
 4 . 5 6 4 5 6 0

Step 4 Display $8.3 \div 100$. Establish that there are two moves and the division sign means the digits move to the right to make the number smaller.

Move 1 = 0.83

Move 2 = 0.083 which is shown as

Th H T O . t h becomes Th H T O . t h t h
 8 . 3 0 . 0 8 3

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

Question number	Question	Answer	Marks	Related test
1	$0 \times 6 = \square$	0	1	Y4 Autumn Test 4
2	$\square = 13 \times 1$	13	1	Y4 Autumn Test 6
3	$32 \times 10 = \square$	320	1	Y5 Autumn Test 5
4	$4 \div 10 = \square$	0.4	1	Y5 Autumn Test 5
5	$7 \times \square = 21$	3	1	Y4 Autumn Test 3, Y4 Spring Test 6
6	$\frac{10}{4} - \frac{6}{4} = \square$	1 (or equiv)	1	Y5 Autumn Test 2
7	$100 \div 1 = \square$	100	1	Y4 Autumn Test 6
8	$315 + 486 = \square$	801	1	Y4 Spring Test 1
9	$\square \times 400 = 1600$	4	1	Y4 Autumn Test 3, Y4 Summer Test 5
10	$\square = 7139 - 2436$	4703	1	Y4 Spring Test 3
11	$6^2 = \square$	36	1	Y5 Autumn Test 4
12	$73 \times 1000 = \square$	73 000	1	Y5 Autumn Test 5
13	$900 - 702 = \square$	198	1	Y5 Autumn Test 3
14	$365 \times 8 = \square$	2920	1	Y4 Summer Test 1
15	$\square = 2700 \div 3$	900	1	Y4 Summer Test 5
16	$7873 + 1948 = \square$	9821	1	Y4 Spring Test 1
17	$75 \div 2 = \square$	37 r1	1	Y5 Autumn Test 6
18	$\frac{4}{7} + \frac{6}{7} = \square$	$1\frac{3}{7}$ (or equiv)	1	Y5 Autumn Test 2
19	$730 = \square \times 5$	146	1	Y4 Autumn Test 2, Y4 Autumn Test 3
20	$21 \times 5 \times 8 = \square$	840	1	Y4 Summer Test 3
21	$3^3 = \square$	27	1	Y5 Spring Test 1
22	$9621 - \square = 3288$	6333	1	Y4 Spring Test 3, Y3 Autumn Test 1
23	$6.1 \times 100 = \square$	610	1	Y5 Spring Test 2
24	$94 \div 7 = \square$	13 r3	1	Y5 Autumn Test 6
25	$\square = 8^2$	64	1	Y5 Autumn Test 4
26	$9 = 198 \div \square$	22	1	Y4 Autumn Test 2, Y4 Autumn Test 3
27	$4004 - 1265 = \square$	2739	1	Y5 Autumn Test 3
28	$26.3 \div 100 = \square$	0.263	1	Y5 Spring Test 2
Total marks			28	

Spring Test 3

Name: Class: Date:

1 $5 \div 1 =$

2 $= 6 \times 3$

3 $10 \times 0 =$

4 $1^3 =$

5 $4000 \div 100 =$

6 $36 \times 1 =$

7 $4 =$ $\div 7$

8 $681 - 268 =$

9 $= \frac{6}{9} + \frac{4}{9}$

10 $7^2 =$

11 $8 \times 12 =$

12
$$\begin{array}{r} 600 \\ - 251 \\ \hline \end{array}$$

13 $900 \times 4 =$

14 $100 =$ ²

15 $4 \overline{) 53}$

16
$$\begin{array}{r} 6175 \\ \times \quad 2 \\ \hline \end{array}$$

Spring Test 3 (continued)

17 $4281 + \boxed{} = 6153$

18 $6 \times 41 \times 5 = \boxed{}$

19 $4^3 = \boxed{}$

20 $\boxed{} = \frac{3}{4}$ of 84

21 $6.24 \times 10 = \boxed{}$

22 $3847 = \boxed{} - 1965$

23
$$\begin{array}{r} 4185 \\ \times \quad 5 \\ \hline \end{array}$$

24 $8 \overline{)98}$

25
$$\begin{array}{r} 4002 \\ - 1463 \\ \hline \end{array}$$

26 $9 \times \boxed{} = 234$

27 $\boxed{} = 63.2 \div 1000$

28
$$\begin{array}{r} 7346 \\ \times \quad 6 \\ \hline \end{array}$$

Total marks **/28**

How well did you do?

Colour the numbers of the questions you got correct.

- with zeros	12	25																		
Multiples of tables	13																			
Square and cube numbers	4	10	14	19																
÷ or x by 10, 100 or 1000	5	21	27																	
Short x	16	18	23	28																
Short ÷, including r	15	24	26																	
Fractions	9	20																		
Missing numbers	7	14	17	22	26															
+	9	22																		
-	8	12	17	25																
x	2	3	4	6	7	10	11	13	16	18	19	20	21	23	28					
÷	1	5	14	15	20	24	26	27												

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 12×12 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. 5×7 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.

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

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 3, 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
Total marks			28	

Spring Test 4

Name:

Class:

Date:

1	<input type="text"/> = 6×11	<input type="checkbox"/>
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2	$53 \times 1 =$ <input type="text"/>	<input type="checkbox"/>
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3	$72 =$ <input type="text"/> $+ 33$	<input type="checkbox"/>
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4	$1^2 =$ <input type="text"/>	<input type="checkbox"/>
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5	$60 \times 10 =$ <input type="text"/>	<input type="checkbox"/>
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6	$820 - 267 =$ <input type="text"/>	<input type="checkbox"/>
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7	$22 \times 0 =$ <input type="text"/>	<input type="checkbox"/>
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8	$\begin{array}{r} 700 \\ - 219 \\ \hline \end{array}$	<input type="checkbox"/>
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9	$11^2 =$ <input type="text"/>	<input type="checkbox"/>
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10	<input type="text"/> = $362 - 28$	<input type="checkbox"/>
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11	$\frac{3}{7} + \frac{6}{7} =$ <input type="text"/>	<input type="checkbox"/>
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12	<input type="text"/> = $84 \div 7$	<input type="checkbox"/>
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13	$6^3 =$ <input type="text"/>	<input type="checkbox"/>
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14	$5 \times 721 \times 2 =$ <input type="text"/>	<input type="checkbox"/>
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15	$\begin{array}{r} 7136 \\ \times \quad 3 \\ \hline \end{array}$	<input type="checkbox"/>
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16	$836 -$ <input type="text"/> $= 428$	<input type="checkbox"/>
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Spring Test 4

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 by 0; multiplication and division by 1; square and cube numbers
- Multiplication of three numbers
- Short multiplication of up to four digits by a single-digit number
- 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: Addition and subtraction of whole numbers with more than four digits (and different numbers of digits)

A teaching suggestion

Step 1 Review the addition of two four-digit numbers using columns for the written calculation (e.g. $1528 + 3379 = 4907$).

Step 2 Display $86\,457 + 855$ and discuss how to set this out. Establish that the ones need to be added together, then the tens and so on; therefore, the numbers need to be in the correct columns. Display this:

$$\begin{array}{r} 86457 \\ + \quad 855 \\ \hline \end{array}$$

Step 3 Work through the calculation, emphasising that you start at the ones and work to the left. Remind the children that, when the answer to a column is greater than one digit, the number is written with the first digit underneath the next column, but so it still reads as the same number.

Step 4 Display the completed calculation:

$$\begin{array}{r} 86457 \\ + \quad 855 \\ \hline 87312 \\ \quad 111 \end{array}$$

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	$\square = 6 \times 11$	66	1	Y4 Autumn Test 5
2	$53 \times 1 = \square$	53	1	Y4 Autumn Test 6
3	$72 = \square + 33$	39	1	Y3 Autumn Test 1, Y3 Autumn Test 3
4	$1^2 = \square$	1	1	Y5 Autumn Test 4
5	$60 \times 10 = \square$	600	1	Y5 Autumn Test 5
6	$820 - 267 = \square$	553	1	Y4 Spring Test 3
7	$22 \times 0 = \square$	0	1	Y4 Autumn Test 4
8	$700 - 219 = \square$	481	1	Y5 Autumn Test 3
9	$11^2 = \square$	121	1	Y5 Autumn Test 4
10	$\square = 362 - 28$	334	1	Y5 Spring Test 4
11	$\frac{3}{7} + \frac{6}{7} = \square$	$1\frac{2}{7}$ (or equiv)	1	Y5 Autumn Test 2
12	$\square = 84 \div 7$	12	1	Y4 Spring Test 6
13	$6^3 = \square$	216	1	Y5 Spring Test 1
14	$5 \times 721 \times 2 = \square$	7210	1	Y4 Summer Test 3
15	$7136 \times 3 = \square$	21 408	1	Y5 Spring Test 3
16	$836 - \square = 428$	408	1	Y4 Spring Test 3, Y3 Autumn Test 1
17	$463.2 \div 100 = \square$	4.632	1	Y5 Spring Test 2
18	$\square^3 = 0$	0	1	Y5 Spring Test 1
19	$91 \div 5 = \square$	18 r1	1	Y5 Autumn Test 6
20	$6000 - 4121 = \square$	1879	1	Y5 Autumn Test 3
21	$50 \div 3 = \square$	16 r2	1	Y5 Autumn Test 6
22	$642 = \square \div 9$	5778	1	Y4 Autumn Test 3, Y4 Summer Test 1
23	$3629 + 84 = \square$	3713	1	Y5 Spring Test 4
24	$85 \div 6 = \square$	14 r1	1	Y5 Autumn Test 6
25	$414 = 6 \times \square$	69	1	Y4 Autumn Test 2, Y4 Autumn Test 3
26	$7.1 \times 1000 = \square$	7100	1	Y5 Spring Test 2
27	$2369 \times 7 = \square$	16 583	1	Y5 Spring Test 3
28	$\square = 364 + 25 + 3182$	3571	1	Y5 Spring Test 4
Total marks			28	

Spring Test 5

Name: Class: Date:

1	$12 \times 0 =$ <input type="text"/>	<input type="checkbox"/>
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2	<input type="text"/> $= 63 \div 9$	<input type="checkbox"/>
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3	$3^2 =$ <input type="text"/>	<input type="checkbox"/>
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4	$4000 \div 10 =$ <input type="text"/>	<input type="checkbox"/>
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5	$621 - 350 =$ <input type="text"/>	<input type="checkbox"/>
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6	<input type="text"/> $= 15 \div 1$	<input type="checkbox"/>
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7	$56 =$ <input type="text"/> $\times 7$	<input type="checkbox"/>
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8	$\frac{15}{10} - \frac{1}{10} =$ <input type="text"/>	<input type="checkbox"/>
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9	$76.4 \div 100 =$ <input type="text"/>	<input type="checkbox"/>
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10	$4^3 =$ <input type="text"/>	<input type="checkbox"/>
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11	$635 - 82 =$ <input type="text"/>	<input type="checkbox"/>
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12	<input type="text"/> $\div 8 = 125$	<input type="checkbox"/>
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13	$\begin{array}{r} 1453 \\ \times \quad 4 \\ \hline \end{array}$	<input type="checkbox"/>
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14	$396 =$ <input type="text"/> $- 185$	<input type="checkbox"/>
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15	$3 \overline{)64}$	<input type="checkbox"/>
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16	<input type="text"/> $= 12 \times 500$	<input type="checkbox"/>
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Spring Test 5 (continued)

17	$2 \overline{) 7852}$	<input type="checkbox"/>
18	$8 \times 5 \times 26 =$ <input type="text"/>	<input type="checkbox"/>
19	$\begin{array}{r} 7002 \\ - 2304 \\ \hline \end{array}$	<input type="checkbox"/>
20	$7 \overline{) 90}$	<input type="checkbox"/>
21	$7328 - 79 =$ <input type="text"/>	<input type="checkbox"/>
22	$342 +$ <input type="text"/> $= 911$	<input type="checkbox"/>
23	<input type="text"/> $= 63.4 \times 100$	<input type="checkbox"/>
24	$5 \overline{) 8845}$	<input type="checkbox"/>
25	$\begin{array}{r} 4348 \\ \times \quad 9 \\ \hline \end{array}$	<input type="checkbox"/>
26	<input type="text"/> ² $= 25$	<input type="checkbox"/>
27	$63 + 2986 + 8 =$ <input type="text"/>	<input type="checkbox"/>
28	$4632 \div 6 =$ <input type="text"/>	<input type="checkbox"/>

Total marks	/28
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How well did you do?

Colour the numbers of the questions you got correct.

± with correct place value	11	21	27																	
- with zeros	19																			
Multiples of tables	4	16																		
Square and cube numbers	3	10	26																	
÷ or x by 10, 100 or 1000	4	9	23																	
Short x	12	13	18	25																
Short ÷, including r	15	17	20	24	28															
Fractions	8																			
Missing numbers	7	12	14	22	26															
+	14	27																		
-	5	8	11	19	21	22														
x	1	3	10	12	13	16	18	23	25											
÷	2	4	6	7	9	15	17	20	24	26	28									

Spring Test 5

Teacher guidance



Skills and knowledge needed for this test:

- Addition and subtraction of two numbers with different numbers of 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 and cube numbers
- Short multiplication of up to four digits by a single-digit number
- 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: Division of a four-digit number by a single-digit number

A teaching suggestion

Step 1 The children are already familiar with $TO \div O$ (see Y4 Autumn Test 2). Display $6745 \div 5$ and then set out the sum for formal division.

$$5 \overline{) 6745}$$

Step 2 First ask: 'How many 5 (thousands) in 6 (thousands)?' Agree that 6 (thousands) have one group of 5 (thousand) and 1 (thousand) left over. Write this in, demonstrating where to write the digit in the thousands column and the remainder in the hundreds column.

Step 3 Now ask: 'How many 5 (hundreds) in 17 (hundreds)?' Agree that there are three groups of 5 (hundred) and 2 (hundred) left over. Continue until the sum is completed.

$$5 \overline{) \begin{array}{r} 1349 \\ 6172445 \end{array}}$$

Step 4 Complete lots of examples with the children, including some with remainders. Encourage them to work with a partner before trying the work independently.

Question number	Question	Answer	Marks	Related test
1	$12 \times 0 = \square$	0	1	Y4 Autumn Test 4
2	$\square = 63 \div 9$	7	1	Y4 Spring Test 2
3	$3^2 = \square$	9	1	Y5 Autumn Test 4
4	$4000 \div 10 = \square$	400	1	Y5 Autumn Test 5
5	$621 - 350 = \square$	271	1	Y4 Spring Test 3
6	$\square = 15 \div 1$	15	1	Y4 Autumn Test 6
7	$56 = \square \times 7$	8	1	Y4 Autumn Test 3, Y4 Spring Test 6
8	$\frac{15}{10} - \frac{1}{10} = \square$	$1\frac{4}{10}$ (or equiv)	1	Y5 Autumn Test 2
9	$76.4 \div 100 = \square$	0.764	1	Y5 Spring Test 2
10	$4^3 = \square$	64	1	Y5 Spring Test 1
11	$635 - 82 = \square$	553	1	Y5 Spring Test 4
12	$\square \div 8 = 125$	1000	1	Y4 Autumn Test 3, Y4 Summer Test 1
13	$1453 \times 4 = \square$	5812	1	Y5 Spring Test 3
14	$396 = \square - 185$	581	1	Y4 Spring Test 1, Y3 Autumn Test 1
15	$64 \div 3 = \square$	21 r1	1	Y5 Autumn Test 6
16	$\square = 12 \times 500$	6000	1	Y4 Summer Test 2, Y4 Summer Test 5
17	$7852 \div 2 = \square$	3926	1	Y5 Spring Test 5
18	$8 \times 5 \times 26 = \square$	1040	1	Y4 Summer Test 3
19	$7002 - 2304 = \square$	4698	1	Y5 Autumn Test 3
20	$90 \div 7 = \square$	12 r6	1	Y5 Autumn Test 6
21	$7328 - 79 = \square$	7249	1	Y5 Spring Test 4
22	$342 + \square = 911$	569	1	Y4 Spring Test 3, Y3 Autumn Test 1
23	$\square = 63.4 \times 100$	6340	1	Y5 Spring Test 2
24	$8845 \div 5 = \square$	1769	1	Y5 Spring Test 5
25	$4348 \times 9 = \square$	39 132	1	Y5 Spring Test 3
26	$\square^2 = 25$	5	1	Y5 Autumn Test 4
27	$63 + 2986 + 8 = \square$	3057	1	Y5 Spring Test 4
28	$4632 \div 6 = \square$	772	1	Y5 Spring Test 5
Total marks			28	

Spring Test 6

Name: Class: Date:

1	$2 \times 7 =$ <input type="text"/>	<input type="checkbox"/>
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2	<input type="text"/> $\div 5 = 11$	<input type="checkbox"/>
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3	$23 \times 100 =$ <input type="text"/>	<input type="checkbox"/>
----------	----------------------------------------	--------------------------

4	<input type="text"/> $= 713 - 305$	<input type="checkbox"/>
----------	------------------------------------	--------------------------

5	$20 \times 1 =$ <input type="text"/>	<input type="checkbox"/>
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6	$2^3 =$ <input type="text"/>	<input type="checkbox"/>
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7	<input type="text"/> $= 0 \times 70$	<input type="checkbox"/>
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8	$\frac{12}{8} - \frac{2}{8} =$ <input type="text"/>	<input type="checkbox"/>
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9	$78 + 284 =$ <input type="text"/>	<input type="checkbox"/>
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10	$348 =$ <input type="text"/> $+ 176$	<input type="checkbox"/>
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11	$\begin{array}{r} 6142 \\ \times \quad 3 \\ \hline \end{array}$	<input type="checkbox"/>
-----------	-----------------------------------------------------------------	--------------------------

12	$3 \overline{)58}$	<input type="checkbox"/>
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13	$\frac{1}{3} + \frac{1}{6} =$ <input type="text"/>	<input type="checkbox"/>
-----------	----------------------------------------------------	--------------------------

14	<input type="text"/> $= 7^2$	<input type="checkbox"/>
-----------	------------------------------	--------------------------

15	$1364 - 58 =$ <input type="text"/>	<input type="checkbox"/>
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16	$4 \times 37 \times 5 =$ <input type="text"/>	<input type="checkbox"/>
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Spring Test 6 (continued)

17	<input style="width: 100px; height: 30px;" type="text"/> = $6004 - 2151$	<input type="checkbox"/>
18	$3 \overline{) 4122}$	<input type="checkbox"/>
19	$600 \times 9 =$ <input style="width: 100px; height: 30px;" type="text"/>	<input type="checkbox"/>
20	$\frac{4}{5} - \frac{1}{10} =$ <input style="width: 100px; height: 30px;" type="text"/>	<input type="checkbox"/>
21	$6 \overline{) 93}$	<input type="checkbox"/>
22	$5 = 1745 \div$ <input style="width: 100px; height: 30px;" type="text"/>	<input type="checkbox"/>
23	$7.29 \div 10 =$ <input style="width: 100px; height: 30px;" type="text"/>	<input type="checkbox"/>
24	<input style="width: 100px; height: 30px;" type="text"/> - 169 = 651	<input type="checkbox"/>
25	$\begin{array}{r} 2773 \\ \times \quad 8 \\ \hline \end{array}$	<input type="checkbox"/>
26	<input style="width: 100px; height: 30px;" type="text"/> = $7319 + 6 + 287$	<input type="checkbox"/>
27	$8 \overline{) 6824}$	<input type="checkbox"/>
28	$\frac{1}{4} + \frac{5}{12} =$ <input style="width: 100px; height: 30px;" type="text"/>	<input type="checkbox"/>

Total marks	/28
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How well did you do?

Colour the numbers of the questions you got correct.

± with correct place value	9	15	26											
- with zeros	17													
Multiples of tables	19													
Square and cube numbers	6	14												
÷ or x by 10, 100 or 1000	3	23												
Short x	11	25												
Short ÷, including r	12	18	21	22	27									
Fractions	8	13	20	28										
Missing numbers	2	10	22	24										
+	9	13	24	26	28									
-	4	8	10	15	17	20								
x	1	2	3	5	6	7	11	14	16	19	25			
÷	12	18	21	22	23	27								

Spring Test 6

Teacher guidance



Skills and knowledge needed for this test:

- Addition and subtraction of two numbers with different numbers of 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 and cube numbers
- Short multiplication of up to four digits by a single-digit number
- Short 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: Addition and subtraction of fractions with multiples of the same denominator

A teaching suggestion

Step 1 Cut one circle into fifths and another into tenths. Compare the segments, demonstrating that two tenths are the same as one fifth, four tenths are the same as two fifths and so on.

Step 2 Hold up fifth fractions and, on an agreed signal, ask the children to call out how many tenths they represent.

Step 3 When the children are confident, display:

$$\frac{3}{5} + \frac{1}{10} =$$

Step 4 Hold three fifths in one hand and one tenth in the other. Discuss the problem of adding them (they are not the same). Give the children an opportunity to discuss how to solve the problem. Agree that the three fifths can be changed for six tenths.

$$\frac{3}{5} + \frac{1}{10} = \frac{6}{10} + \frac{1}{10} =$$

Step 5 The tenths are now straightforward to add, giving $\frac{7}{10}$.

Step 6 Together, repeat lots of addition and subtraction examples using $\frac{1}{3}$ and $\frac{1}{6}$, $\frac{1}{4}$ and $\frac{1}{2}$, $\frac{1}{4}$ and $\frac{1}{8}$ and so on. Allow the children to work with a partner before working independently.

Question number	Question	Answer	Marks	Related test
1	$2 \times 7 = \square$	14	1	Y4 Spring Test 6
2	$\square \div 5 = 11$	55	1	Y4 Autumn Test 3, Y4 Autumn Test 5
3	$23 \times 100 = \square$	2300	1	Y5 Autumn Test 5
4	$\square = 713 - 305$	408	1	Y4 Spring Test 3
5	$20 \times 1 = \square$	20	1	Y4 Autumn Test 6
6	$2^3 = \square$	8	1	Y5 Spring Test 1
7	$\square = 0 \times 70$	0	1	Y4 Autumn Test 4
8	$\frac{12}{8} - \frac{2}{8} = \square$	$1\frac{2}{8}$ (or equiv)	1	Y5 Autumn Test 2
9	$78 + 284 = \square$	362	1	Y5 Spring Test 4
10	$348 = \square + 176$	172	1	Y4 Spring Test 1, Y3 Autumn Test 1
11	$6142 \times 3 = \square$	18 426	1	Y5 Spring Test 3
12	$58 \div 3 = \square$	19 r1	1	Y5 Autumn Test 6
13	$\frac{1}{3} + \frac{1}{6} = \square$	$\frac{3}{6}$ (or equiv)	1	Y5 Spring Test 6
14	$\square = 7^2$	49	1	Y5 Autumn Test 4
15	$1364 - 58 = \square$	1306	1	Y5 Spring Test 4
16	$4 \times 37 \times 5 = \square$	740	1	Y4 Summer Test 3
17	$\square = 6004 - 2151$	3853	1	Y5 Autumn Test 3
18	$4122 \div 3 = \square$	1374	1	Y5 Spring Test 5
19	$600 \times 9 = \square$	5400	1	Y4 Spring Test 4, Y4 Summer Test 5
20	$\frac{4}{5} - \frac{1}{10} = \square$	$\frac{7}{10}$ (or equiv)	1	Y5 Spring Test 6
21	$93 \div 6 = \square$	15 r3	1	Y5 Autumn Test 6
22	$5 = 1745 \div \square$	349	1	Y5 Spring Test 5, Y4 Autumn Test 3
23	$7.29 \div 10 = \square$	0.729	1	Y5 Spring Test 2
24	$\square - 169 = 651$	820	1	Y4 Spring Test 1, Y3 Autumn Test 1
25	$2773 \times 8 = \square$	22 184	1	Y5 Spring Test 3
26	$\square = 7319 + 6 + 287$	7612	1	Y5 Spring Test 4
27	$6824 \div 8 = \square$	853	1	Y5 Spring Test 5
28	$\frac{1}{4} + \frac{5}{12} = \square$	$\frac{8}{12}$ (or equiv)	1	Y5 Spring Test 6
Total marks			28	