

# Autumn Test 3

## Teacher guidance



### Skills and knowledge needed for this test:

- Addition and subtraction of two three-digit numbers crossing column boundaries
- Addition and subtraction of fractions with the same denominator, within 1
- Multiplication and division by 2, 3, 4, 5, 8 and 10 including deriving multiples of 10
- Multiplication of three numbers
- Missing number statements with all four operations
- Formal written method for short multiplication and short division
- Find a half, a third, a quarter, two quarters or three quarters of an amount

## Review: Missing number statements with multiplication and division

### A teaching suggestion

**Step 1** Show the children the calculation  $7 \times 8 = 56$  and ask them to write all the related calculations. Generate this list:

$$8 \times 7 = 56$$

$$7 \times 8 = 56$$

$$56 \div 7 = 8$$

$$56 \div 8 = 7$$

**Step 2** Show the children the missing number statement  $56 \div \square = 8$  and discuss how to use the listed calculations to solve this problem.

**Step 3** Show the children the calculation  $3 \times \square = 12$  and discuss how their knowledge of tables could help them answer the calculation.

**Step 4** Agree that the answer is 4, and that this could be found using  $12 \div 3 = 4$ .

**Step 5** Extend to using more complicated examples (e.g.  $4 \times \square = 56$ ).

**Step 6** Complete lots of examples with the children, then allow them to work with a partner before working independently.

Question number	Question	Answer	Marks	Related test
1	$\square = 20 - 14$	6	1	Y1 Summer Test 5
2	$7 + 5 + \square = 15$	3	1	Y3 Autumn Test 1, Y2 Spring Test 6
3	$\frac{1}{4}$ of 12 = $\square$	3	1	Y2 Summer Test 1
4	$2 \times 11 \times 5 = \square$	110	1	Y3 Summer Test 5
5	$461 + 20 = \square$	481	1	Y3 Autumn Test 6
6	$\square + 9 = 15$	6	1	Y3 Autumn Test 1, Y1 Summer Test 1
7	$29 + 52 = \square$	81	1	Y3 Autumn Test 2
8	$6 \times 8 = \square$	48	1	Y3 Summer Test 3
9	$65 - 28 = \square$	37	1	Y3 Autumn Test 3
10	$\square + 200 = 324$	124	1	Y3 Autumn Test 1, Y3 Spring Test 3
11	$\frac{1}{7} + \frac{4}{7} = \square$	$\frac{5}{7}$	1	Y3 Spring Test 6
12	$\square = 6 \times 7 \times 5$	210	1	Y3 Summer Test 5
13	$\frac{3}{4}$ of 8 = $\square$	6	1	Y3 Autumn Test 4
14	$17 \times 3 = \square$	51	1	Y4 Autumn Test 1, Y3 Spring Test 1
15	$48 + 63 = \square$	111	1	Y3 Summer Test 2
16	$90 \div 5 = \square$	18	1	Y4 Autumn Test 2, Y2 Spring Test 5
17	$28 \times 4 = \square$	112	1	Y4 Autumn Test 1, Y3 Spring Test 4
18	$75 \div \square = 5$	15	1	Y4 Autumn Test 2, Y4 Autumn Test 3
19	$560 \div 8 = \square$	70	1	Y3 Spring Test 2, Y3 Summer Test 3
20	$3 \times \square = 87$	29	1	Y4 Autumn Test 2, Y4 Autumn Test 3
<b>Total marks</b>			<b>20</b>	