

Autumn Test 3

Teacher guidance



Skills and knowledge needed for this test:

- Addition of three single-digit numbers
- Addition and subtraction of multiples of 10
- Addition and subtraction of a two-digit and a single-digit number with and without crossing a ten
- Addition and subtraction of a two-digit number and a multiple of 10
- Addition and subtraction of two two-digit numbers without crossing a ten
- Addition of two two-digit numbers crossing a ten
- Missing number statements with addition and subtraction
- Multiplication and division by 10, 5 and 2
- Finding a half, a third or a quarter of an amount

Review: Subtraction of two two-digit numbers with and without crossing a ten

A teaching suggestion

Step 1 Explain the children are going to play the 'Pirate Game'. Display the number 70 and explain that this is all the treasure they have. Select two children and give one seven cards with '10' written on each. Establish that this child is holding 70. Do not give the other child any cards, but explain they are there to hold the 'ones'. Select a third child to be the pirate and give them an eye-patch (optional!).

Step 2 Underneath the 70 write ' $- 28$ ' and say this is the payment the pirate is demanding. The pirate asks the 'ones' child for 8 and is told he cannot pay. The pirate menaces the 'ones' child who whispers to the 'tens' child: 'Lend me some treasure'. The 'tens' child responds: 'Alright, but I'm only giving you

one!' and gives one of the tens cards to the 'ones' child, who immediately swaps it for 10 ones, as 'ones' children cannot hold tens!

Step 3 Alter the displayed calculation as shown because the 'tens' child is now only holding 6 tens while the 'ones' child is holding 10 ones.

$$\begin{array}{r} 67 \text{ }^{10} \\ - 28 \\ \hline \end{array}$$

Step 4 The pirate again demands 8 ones and is paid, leaving the 'ones' child with 2 ones. He then demands two cards from the 'tens' child to get his payment of 28, leaving the 'tens' child with 4 tens. Finish the calculation as shown.

$$\begin{array}{r} 67 \text{ }^{10} \\ - 28 \\ \hline 42 \end{array}$$

Step 5 Play the game again with different subtractions. Allow the children to be dramatic!

Question number	Question	Answer	Marks	Related test
1	$9 - 6 = \square$	3	1	Y1 Autumn Test 5
2	$\square = 6 + 7$	13	1	Y1 Summer Test 1
3	$52 - \square = 20$	32	1	Y3 Autumn Test 1, Y2 Autumn Test 6
4	$4 + 3 + 6 = \square$	13	1	Y2 Spring Test 6
5	$4 \times 5 = \square$	20	1	Y2 Spring Test 5
6	$42 + 49 = \square$	91	1	Y3 Autumn Test 2
7	$30 + \square = 70$	40	1	Y3 Autumn Test 1, Y2 Autumn Test 4
8	$\square = 40 \div 10$	4	1	Y2 Autumn Test 3
9	$\frac{1}{3}$ of 9 = $\square$	3	1	Y2 Summer Test 5
10	$12 \div 2 = \square$	6	1	Y2 Spring Test 1
11	$33 = 74 - \square$	41	1	Y3 Autumn Test 1, Y3 Autumn Test 3
12	$\frac{1}{4}$ of 16 = $\square$	4	1	Y2 Summer Test 1
13	$43 - 29 = \square$	14	1	Y3 Autumn Test 3
14	$32 + 28 = \square$	60	1	Y3 Autumn Test 2
15	$63 - 35 = \square$	28	1	Y3 Autumn Test 3
Total marks			15	