

Discussion Problems

Step 1: Count and Write Numbers to 20

National Curriculum Objectives:

Mathematics Year 1: (1N2c) [Read and write numbers from 1 to 20 in numerals and words](#)

About this resource:

As this resource is aimed at Year 1, we recommend that an adult reads the problem to children who cannot yet access it for themselves.

This resource has been designed for pupils who understand the concepts within [this step](#). It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

More [Year 1 Place Value](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Count and Write Numbers to 20

1. Help Billy to find his ball by counting forwards through the maze from 1 to 20.



1	2	3	4	5	6	7	8	9	10
2	3	3	4	5	7	8	18	19	20
2	3	4	5	6	8	16	17	18	19
1	4	5	6	7	9	15	16	17	18
4	5	6	7	8	13	14	15	18	19
5	6	7	8	9	12	15	16	17	20
6	7	8	9	10	11	12	13	16	20
7	8	9	10	11	12	13	14	15	16



Then, find a different route to get from his ball to his dinner by counting backwards from 20 to 1. You can move diagonally.

DP

2. Help Percy the pirate to work out the mystery code and unlock the treasure chest by filling in the sequences below.



fifteen	16	17	18	
	17	eighteen	19	twenty
11		thirteen	14	

Order the numbers you have just found from smallest to biggest to work out what the mystery number could be and unlock the treasure chest.

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DP

Count and Write Numbers to 20

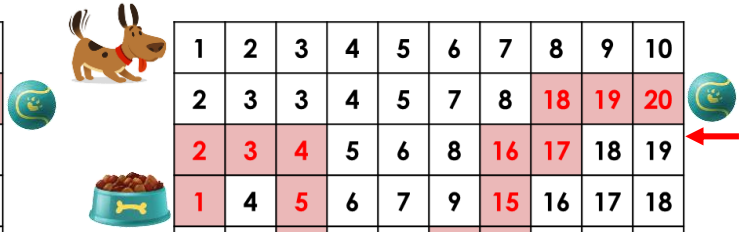
1. Help Billy to find his ball by counting forwards through the maze from 1 to 20.

Various answers, for example:



1	2	3	4	5	6	7	8	9	10
2	3	3	4	5	7	8	18	19	20
2	3	4	5	6	8	16	17	18	19
1	4	5	6	7	9	15	16	17	18
4	5	6	7	8	13	14	15	18	19
5	6	7	8	9	12	15	16	17	20
6	7	8	9	10	11	12	13	16	20
7	8	9	10	11	12	13	14	15	16

To the ball



1	2	3	4	5	6	7	8	9	10
2	3	3	4	5	7	8	18	19	20
2	3	4	5	6	8	16	17	18	19
1	4	5	6	7	9	15	16	17	18
4	5	6	7	8	13	14	15	18	19
5	6	7	8	9	12	15	16	17	20
6	7	8	9	10	11	12	13	16	20
7	8	9	10	11	12	13	14	15	16

From the ball to the bowl

Then, find a different route to get from his ball to his dinner by counting backwards from 20 to 1. You can move diagonally.

DP

2. Help Percy the pirate to work out the mystery code and unlock the treasure chest by filling in the sequences below.



fifteen	16	17	18	19
16	17	eighteen	19	twenty
11	12	thirteen	14	15

Order the numbers you have just found from smallest to biggest to work out what the mystery number could be and unlock the treasure chest.

12	15	16	?	19
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The mystery number could either be 17 or 18.

DP