

# Reasoning and Problem Solving

## Step 8: Count in 2s

### National Curriculum Objectives:

Mathematics Year 1: (1N1b) [Count in multiples of twos, fives and tens](#)

### Differentiation:

Questions 1, 4 and 7 (Reasoning)

**Developing** Explain whether a statement is correct when counting forwards in twos. Includes numerals to 50 with pictorial representations and a number track.

**Expected** Explain whether a statement is correct when counting forwards in twos. Includes numerals to 50 with some pictorial representations.

**Greater Depth** Explain whether a statement is correct when counting forwards and backwards in twos to find two more than and two less than. Includes words to 50.

Questions 2, 5 and 8 (Problem Solving)

**Developing** Continue a sequence of counting in 2s and explain which number will not be included. Includes numerals to 50.

**Expected** Continue a sequence of counting in 2s and explain which number will not be included. Using language of two more/ two less than. Includes numerals to 50.

**Greater Depth** Continue a sequence of counting in 2s and explain which number will not be included. Using language of two more/ two less than. Includes numerals, words and partitioned numbers to 50.

Questions 3, 6 and 9 (Problem Solving)

**Developing** Travel through the maze by counting forwards in twos. Includes numerals to 50. Number track included for support.

**Expected** Travel through the maze by counting forwards and backwards in twos. Includes numerals to 50.

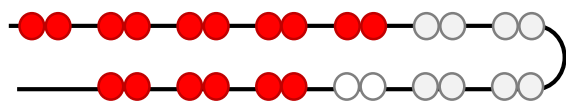
**Greater Depth** Travel through a maze by counting forwards and backwards in twos. Includes numerals, words and partitioned numbers to 50.

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

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

## Count in 2s

1a. Neo is counting the beads in 2s.



There are 13 beads in total.

Is Neo correct? Prove it.

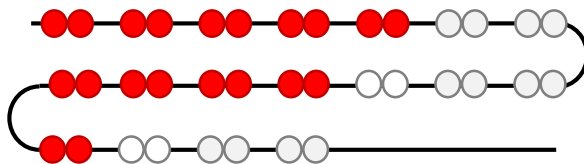


20	22	24	26	28	30	32	34	36	38
----	----	----	----	----	----	----	----	----	----

R

## Count in 2s

1b. Sophie is counting the beads in 2s.



There are 37 beads in total.

Is Sophie correct? Prove it.



22	24	26	28	30	32	34	36	38	40
----	----	----	----	----	----	----	----	----	----

R

2a. Jo is counting in 2s.

30	32	34	36	38	40	42	
----	----	----	----	----	----	----	--

What number would be next?

Which card would not be part of the sequence?



46

44

41

48

PS

2b. Rav is counting in 2s.

16	18	20	22	24	26	28	
----	----	----	----	----	----	----	--

What number would be next?

Which card would not be part of the sequence?



32

30

34

33

PS

3a. Find the way through the maze by counting forwards in 2s.

	29	49	18	27	41	
start	24	34	31	42	39	
	26	41	34	36	38	
	28	30	32	46	40	finish



24	26	28	30	32	34	36	38	40	42
----	----	----	----	----	----	----	----	----	----

PS

3b. Find the way through the maze by counting forwards in 2s.

	9	43	29	24	26	finish
	21	18	20	22	15	
	14	16	11	17	39	
start	12	39	13	25	41	

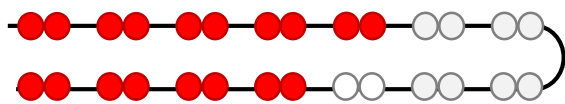


10	12	14	16	18	20	22	24	26	28
----	----	----	----	----	----	----	----	----	----

PS

## Count in 2s

4a. Holly is counting the beads in 2s.



There are 14 beads in total.

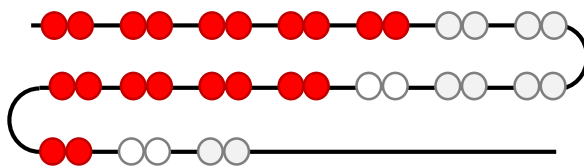
Is Holly correct? Prove it.



R

## Count in 2s

4b. Tim is counting the beads in 2s.



There are 35 beads in total.

Is Tim correct? Prove it.



R

5a. Jay is counting in 2s.

30	32	34	36	
----	----	----	----	--

What number would be two more?

Which card would not be part of the sequence?

38	40	29	48
----	----	----	----



PS

5b. Ali is counting in 2s.

30	28	26	24	
----	----	----	----	--

What number would be two less?

Which card would not be part of the sequence?

16	22	21	14
----	----	----	----



PS

6a. Find the way through the maze by counting forwards in 2s.

	29	36	38	40	41	
start	32	34	35	42	39	
	10	41	21	44	45	
	23	20	25	46	48	finish



PS

6b. Find the way through the maze by counting backwards in 2s.

	9	43	29	32	30	finish
	21	38	36	34	15	
	42	40	11	17	39	
start	44	39	13	25	41	



PS

## Count in 2s

## Count in 2s

7a. Sam is counting in 2s.



Two more than twenty-four is forty-four.

Is Sam correct? Prove it.



R

7b. Emi is counting in 2s.



Two less than thirty-eight is forty.

Is Emi correct? Prove it.



R

8a. Jay is counting in 2s.

32	34	36	38	
----	----	----	----	--

What number would be two more?

Which card would not be part of the sequence?

forty-two	39	46	4 tens
-----------	----	----	--------



PS

8b. Ali is counting in 2s.

	36	38	40	42
--	----	----	----	----

What number would be two less?

Which card would not be part of the sequence?

3 tens	34	28	thirty-three
--------	----	----	--------------



PS

9a. Find the way through the maze by counting forwards in 2s.

	35	32	19	47	forty-one
	34	thirty-six	38	43	25
start	thirty-two	50	4 tens	42	45
	23	29	41	forty-four	46 finish



PS

9b. Find the way through the maze by counting backwards in 2s.

start	48	18	36	3 tens 4 ones	32
	46	45	thirty-eight	12	thirty
	44	forty-two	40	31	28
	thirty-seven	24	29	28	2 tens 6 ones finish



PS

## Reasoning and Problem Solving Count in 2s

### Developing

1a. Neo is incorrect. There are 13 pairs of beads and 26 beads in total.

2a. 44 is next. 41 cannot be part of the sequence.

3a.

29	49	18	27	41
24	34	31	42	39
26	41	34	36	38
28	30	32	46	40

### Expected

4a. Holly is incorrect. There are 14 pairs of beads and 28 beads in total.

5a. 38 is two more. 29 cannot be part of the sequence.

6a.

29	36	38	40	41
32	34	35	42	39
10	41	21	44	45
23	20	25	46	48

### Greater Depth

7a. Sam is incorrect. He has worked out 2 tens more not 2 ones more. Two more than twenty-four is twenty-six.

8a. 4 tens is two more. 39 cannot be part of the sequence.

9a.

35	32	19	47	forty-one
34	thirty-six	38	43	25
thirty-two	50	4 tens	42	45
23	29	41	forty-four	46

## Reasoning and Problem Solving Count in 2s

### Developing

1b. Sophie is incorrect. There are 36 beads in total. She hasn't counted in 2s.

2b. 30 is next. 33 cannot be part of the sequence.

3b.

9	43	29	24	26
21	18	20	22	15
14	16	11	17	39
12	39	13	25	41

### Expected

4b. Tim is incorrect. There are 34 beads in total. He hasn't counted in 2s.

5b. 22 is two less. 21 cannot be part of the sequence.

6b.

9	43	29	32	30
21	38	36	34	15
42	40	11	17	39
44	39	13	25	41

### Greater Depth

7b. Emi is incorrect. She has worked out two more than 38, not two less. Two less than thirty-eight is thirty-six.

8b. 34 is two less. Thirty-three cannot be part of the sequence.

9b.

48	18	36	3 tens 4 ones	32
46	45	thirty-eight	12	thirty
44	forty-two	40	31	28
thirty-seven	24	29	28	2 tens 6 ones