

# Reasoning and Problem Solving

## Step 4: Counting Forwards

### National Curriculum Objectives:

Mathematics Year 1: (1N1a) [Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number](#)

Mathematics Year 1:(1N2a) [Count, read and write numbers to 100 in numerals](#)

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

### Differentiation:

Questions 1, 4 and 7 (Problem Solving)

**Developing** Identify the number using the given clue and knowledge of counting forwards from 0 to 5. Using numerals and images.

**Expected** Identify the number using the given clue and knowledge of counting forwards from 0 to 10. Using numerals and words.

**Greater Depth** Identify the number using the given clue and knowledge of counting forwards from 0 to 10, where there is more than one consecutive missing number. Using words.

Questions 2, 5 and 8 (Reasoning)

**Developing** Explain if the statement about missing numbers in sequences from 0 to 5 is true or false. Using numerals and images.

**Expected** Explain if the statement about missing numbers in sequences from 0 to 10 is true or false. Using numerals, words and images.

**Greater Depth** Explain if the statement about missing numbers in sequences from 0 to 10 is true or false, where there is more than one consecutive missing number. Using numerals, words and images.

Questions 3, 6 and 9 (Reasoning)

**Developing** Explain who is correct using knowledge of counting forwards from 0 to 5. Using numerals and images.

**Expected** Explain who is correct using knowledge of counting forwards from 0 to 10. Using numerals.

**Greater Depth** Explain who is correct using knowledge of counting forwards from 0 to 10, where there is more than one consecutive missing number. Using numerals and words.

More [Year 1 Place Value](#) resources

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

## Counting Forwards

1a. Reese is thinking of a number. He says,



Reese

The number comes 1 after .

What number is he thinking of?



PS

## Counting Forwards

1b. Ashley is thinking of a number. She says,



Ashley

The number comes 1 after .

What number is she thinking of?



PS

2a. True or false? All these sequences are missing the number 1.

1, 2, , 4, 5



0, , 2, 3, 4

Convince me!



R

2b. True or false? All these sequences are missing the number 4.

0, 1, 2, 3,



1, 2, 3, , 5

Convince me!



R

3a. Lisa and Ben are counting forwards on a number line.



Lisa

The missing number is 3.



Ben

The missing number is 2.

Who is correct? Explain why.



R

3b. Kevin and Yasmin are counting forwards on a number line.



Kevin

The missing number is 5.



Yasmin

The missing number is 1.

Who is correct? Explain why.



R

## Counting Forwards

4a. Paige is thinking of a number. She says,



Paige

The number comes one after 8.

What number is she thinking of?



PS

## Counting Forwards

4b. Marley is thinking of a number. He says,



Marley

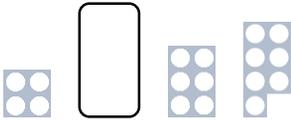
The number comes one after 9.

What number is he thinking of?



PS

5a. True or false? All these sequences are missing the number 5.



3, 4, , 6, 7

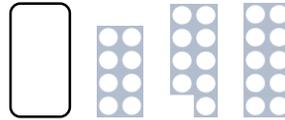
two, three, four,

Convince me!



R

5b. True or false? All these sequences are missing the number 7.



3, , 5, 6, 7

six, , eight, nine

Convince me!



R

6a. Eve and Max are counting forwards on a number line.



Eve

The missing number is 4.

The missing number is 3.



Max

Who is correct? Explain why.



R

6b. Albert and Zoe are counting forwards on a number line.



Albert

The missing number is 1.

The missing number is 8.



Zoe

Who is correct? Explain why.



R

## Counting Forwards

7a. Suzie is thinking of two numbers. She says,



Suzie

The numbers come between four and seven.

What numbers is she thinking of?



PS

## Counting Forwards

7b. Roland is thinking of two numbers. He says,



Roland

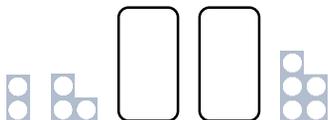
The numbers come between seven and ten.

What numbers is he thinking of?



PS

8a. True or false? All these sequences are missing the numbers three and four.



, , 5, 6, 7

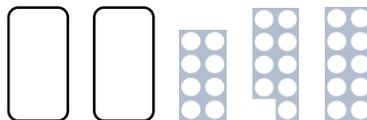
two, , , five, six

Convince me!



R

8b. True or false? All these sequences are missing the numbers seven and eight.



5, 6, , , 9

four, five, six, ,

Convince me!



R

9a. Jada and Connor are counting forwards on a number line.



Jada

The missing numbers are eight and nine.

The missing numbers nine and ten.



Connor

Who is correct? Explain why.



R

9b. Perla and Abbey are counting forwards on a number line.



Perla

The missing numbers are one and two.

The missing numbers are four and five.



Abbey

Who is correct? Explain why.



R

## Reasoning and Problem Solving Counting Forwards

### Developing

- 1a. 4  
2a. False. The first sequence is missing the number 3.  
3a. Ben is correct as the missing number is 2. 2 comes after 1.

### Expected

- 4a. 9  
5a. True  
6a. Eve is correct as the missing number is 4. 4 comes after 3.

### Greater Depth

- 7a. 5 and 6  
8a. True  
9a. Jada is correct as the missing numbers are 8 and 9. 8 and 9 come between 7 and 10.

## Reasoning and Problem Solving Counting Forwards

### Developing

- 1b. 5  
2b. True  
3b. Kevin is correct as the missing number is 5. 5 comes after 4.

### Expected

- 4b. 10  
5b. False. The second sequence is missing the number 4.  
6b. Zoe is correct as the missing number is 8. 8 comes after 7.

### Greater Depth

- 7b. 8 and 9  
8b. False. The first sequence is missing the numbers 4 and 5.  
9b. Abbey is correct as the missing numbers are 4 and 5. 4 and 5 come between 3 and 6.