Reasoning and Problem Solving
Step 5: Counting Backwards

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: (1N2c) Read and write numbers from 1 to 20 in numerals and words

Differentiation:

Questions 1, 4 and 7 (Reasoning)
Developing Explain if the statement is correct when finding the missing number by counting backwards from 5 to 0. Using numerals and images.
Expected Explain if the statement is correct when finding the missing number by counting backwards from 10 to 0. Using numerals, words and images.
Greater Depth Explain if the statement is correct when finding the missing numbers by counting backwards from 10 to 0, where there are more missing numbers than numbers given within a sequence. Using numerals, words and images.

Questions 2, 5 and 8 (Reasoning)
Developing Explain the mistake using knowledge of counting backwards from 5 to 0. Using numerals and images.
Expected Explain the mistake using knowledge of counting backwards from 10 to 0. Using numerals, words and images.
Greater Depth Explain the mistake using knowledge of counting backwards from 10 to 0, where there is more than one consecutive missing number. Using numerals, words and images.

Questions 3, 6 and 9 (Problem Solving)
Developing Identify the missing numbers in the sequence that are hidden by the paint splat by counting backwards from 5 to 0. Using numerals.
Expected Identify the missing numbers in the sequence that are hidden by the paint splat by counting backwards from 10 to 0. Using numerals.
**Greater Depth** Identify the missing numbers in the sequence that are hidden by the paint splat by counting backwards from 10 to 0, where there are more missing numbers than numbers given within a sequence. Using words.

More Year 1 Place Value resources

Did you like this resource? Don't forget to review it on our website.

Counting Backwards

Counting Backwards

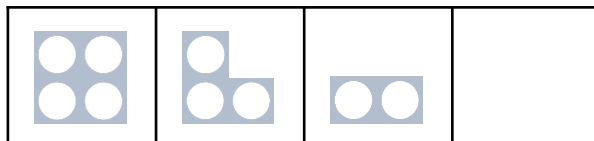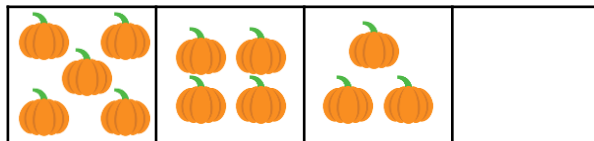**1a.** Sam says the number missing from each sequence is 3.

Is she correct? Explain why.

⭐D

R
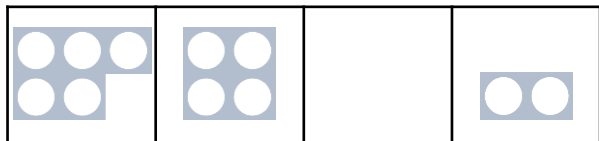
1b. Ben says the number missing from each sequence is 1.

Is he correct? Explain why.

⭐D

R

2a. Ali counts backwards from 5.

He says,

> 5, 4, 3, 1

Explain the mistake Ali has made.

⭐D

R

2b. Kat counts backwards from 2.

She says,

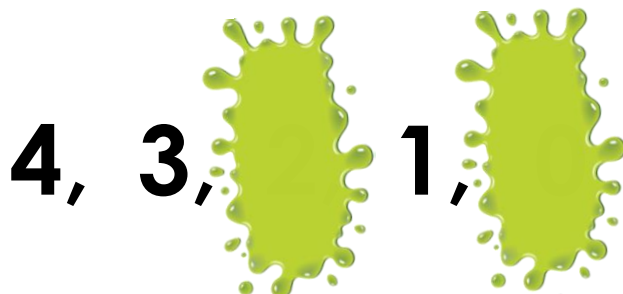> 2, 3, 4, 5

Explain the mistake Kat has made.

⭐D

R

3a. Which numbers could have been covered by the paint splats?

5,   3,   1

⭐D

PS

3b. Which numbers could have been covered by the paint splats?

4, 3,   1,

⭐D

PS

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Reasoning and Problem Solving – Counting Backwards – Year 1 Developing

**4a.** Tom says the number missing from each sequence is 7.

10	9	8		6

Is he correct? Explain why.

4b. Tara says the number missing from each sequence is 9.

|		8	7	6	5

Is she correct? Explain why.

5a. Teddy counts backwards from 5.

He says,

> five, six, seven, eight

Explain the mistake Teddy has made.

5b. Sarah counts backwards from 10.
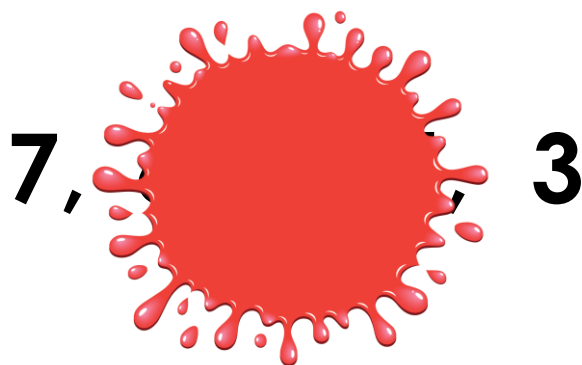
She says,

> 10, 9, 8, 6, 5

Explain the mistake Sarah has made.

6a. Which numbers could have been covered by the paint splat?

7,   , 3

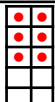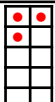**6b.** Which numbers could have been covered by the paint splat?

9,   , 5

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Reasoning and Problem Solving – Counting Backwards – Year 1 Expected

Counting Backwards

7a. Nigel says two of the missing numbers from each sequence are 6 and 5.

nine		seven		

	seven			4

Is he correct? Explain why.

R
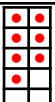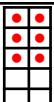
7b. Ayla says two of the missing numbers from each sequence are 9 and 8.

		8	seven	

ten			7	

Is she correct? Explain why.

R

8a. Cullen counts backwards from 7.

He says,

> seven, 4, 3, two, one

Explain the mistake Cullen has made.
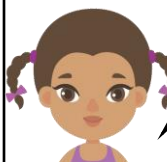
R

8b. Kenya counts backwards from 10.

She says,

> 10, nine, 8, five, 4

Explain the mistake Kenya has made.

R

9a. Which numbers could have been covered by the paint splat?

five, four

PS

9b. Which numbers could have been covered by the paint splat?

seven, six,

PS

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Reasoning and Problem Solving – Counting Backwards – Year 1 Greater Depth

Developing

1a. She is correct, 3 comes after 4 when counting backwards.
2a. Ali has missed out 2.
3a. 4 and 2

Expected

4a. He is incorrect. Number 8 is missing from the 3rd sequence.
5a. Teddy has counted forwards.
6a. 6, 5 and 4

Greater Depth

7a. He is incorrect. 7, 5 and 4 are missing from the 2nd sequence.
8a. Cullen has missed out 6 and 5.
9a. Various answers, for example: 10, 9, 8, 7 and 6

Developing

1b. He is incorrect. Number 2 is missing from the 1st sequence.
2b. Kat has counted forwards.
3b. 2 and 0

Expected

4b. She is correct, 9 comes after 10 when counting backwards.
5b. Sarah has missed out 7.
6b. 8, 7 and 6

Greater Depth

7b. She is incorrect. 10, 9 and 6 are missing from the 2nd sequence.
8b. Kenya has missed out 7 and 6.
9b. Various answers, for example: 5, 4, 3, 2, 1 and 0