Reasoning and Problem Solving
Step 5: Ordering Numbers

National Curriculum Objectives:

Mathematics Year 1: (1N1a) Count to and across 100, forward 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: (1N2b) Given a number, identify one more and one less
Mathematics Year 1: (1N4) Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most and least

Differentiation:

Questions 1, 4 and 7 (Reasoning)
Developing Describe the order of a series of grouped objects in ascending order. Explain your answer.
Expected Describe the order of a series of grouped objects and numbers in ascending and descending order. Explain your answer.
Greater Depth Describe the order of a series of grouped objects, numbers and words in ascending and descending order. Explain your answer.

Questions 2, 5 and 8 (Problem Solving)
Developing Find the odd one out in a list of numbers in ascending order.
Expected Find the odd one out in a list of numbers in ascending and descending order.
Greater Depth Find the odd one out in a list of numerals and words in ascending and descending order.

Questions 3, 6 and 9 (Reasoning)
Developing Explain whether a statement is correct when discussing ordinal numbers up to 3 places.
Expected Explain whether a statement is correct when discussing ordinal numbers up to 5 places.
Greater Depth Explain whether a statement is correct when discussing any ordinal numbers.

More Year 1 Place Value resources.

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

Ordering Numbers

1a. How have these objects been ordered?

Explain how you know.

1b. How have these objects been ordered?

Explain how you know.

2a. Find the number that does not fit the order and explain why it's wrong.

1	3	2	10
26	32	45	50

2b. Find the number that does not fit the order and explain why it's wrong.

5	12	95	20
25	36	49	50

3a. Year 1 are talking about sports day.

Jason says,

> There was one child in front of me. That means I was in second place.

Is he correct? Explain how you know.

3b. Year 1 are talking about sports day.

Aaron says,

> There were two children in front of me. That means I was in second place.
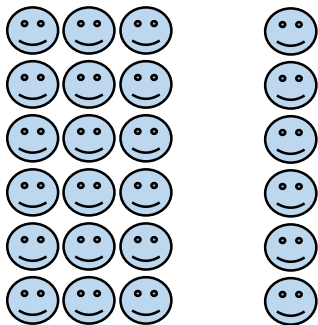
Is he correct? Explain how you know.

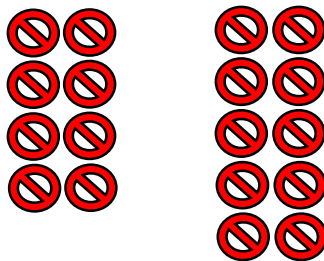**4a.** How have these objects and numbers been ordered?

85

Explain how you know.

4b. How have these objects and numbers been ordered?

72

Explain how you know.

5a. Find the number that does not fit the order and explain why it's wrong.

20	31	59	50
62	72	83	99

5b. Find the number that does not fit the order and explain why it's wrong.

97	88	89	62
50	32	29	20

6a. Year 1 are talking about sports day.

Max says,

> Four people finished ahead of me. That means I came fourth in the race.

Is he correct? Explain how you know.

6b. Year 1 are talking about sports day.

Rosie says,

> Three people finished ahead of me. That means I came four in the race.

Is she correct? Explain how you know.

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Reasoning and Problem Solving – Ordering Numbers – Expected

Ordering Numbers

7a. How have these objects and numbers been ordered?

10   10   forty-five   96

Explain how you know.

GD

R

7b. How have these objects and numbers been ordered?

sixty-six   52   10

Explain how you know.

GD

R

8a. Find the number that does not fit the order and explain why it's wrong.

19   31   Twenty-seven   58

Seventy-one   80   ninety   99

GD

PS

8b. Find the number that does not fit the order and explain why it's wrong.
.

ninety-five   84   75   sixty-one

65   fifty-three   25   21

GD

PS

9a. Year 1 are talking about sports day.

Aisha says,

> There were 19 people ahead of me in my race, so I was twentieth.

Is she correct? Explain how you know.

GD

R

9b. Year 1 are talking about sports day.

Levi says,

> There were 18 people ahead of me in the race. The person ahead of me was eighteenth and I was twentieth.

Is he correct? Explain how you know.

GD

R

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Reasoning and Problem Solving – Ordering Numbers – Greater Depth

Reasoning and Problem Solving
Ordering Numbers

Developing
1a. Objects have been ordered from least to most. Children should explain that the number of objects is larger in each group.
2a. The number 2 does not fit as it is not bigger than 3 and less than 10.
3a. Jason is correct because second comes after first.

Expected
4a. The objects and numbers have been ordered from largest to smallest.
5a. The number 50 does not fit as it is not bigger than 59 and the order is ascending.
6a. Max is incorrect. If 4 people were ahead of him then he was fifth.

Greater Depth
7a. The numbers have been ordered from smallest to largest as the numbers get bigger.
8a. Twenty-seven does not fit as it is not bigger than 31 and the order is ascending.
9a. Aisha is correct because twentieth follows nineteenth.

Reasoning and Problem Solving
Ordering Numbers

Developing
1b. Objects have been ordered from least to most. Children should explain that the number of objects is larger in each group.
2b. The number 95 does not fit as in is not smaller than 20.
3b. Aaron is incorrect because the order is first, second, third. As there are two people in front of him, he must be third.

Expected
4b. The objects and numbers have been ordered from smallest to largest.
5b. The number 89 does not fit as it is not smaller that 88 and the order is descending.
6b. Rosie is incorrect. She has the number correct but it needs to be written as fourth.

Greater Depth
7b. The numbers are ordered from largest to smallest as the numbers get smaller.
8b. 65 does not fit as it is not smaller than sixty-one and the order is descending.
9b. Levi is wrong. He has the first part of the statement right but he was nineteenth not twentieth.

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Reasoning and Problem Solving – Ordering Numbers ANSWERS