

Reasoning and Problem Solving

Step 12: Ordering Objects

National Curriculum Objectives:

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

Mathematics Year 1: (1C8) [Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher](#)

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 Arrange groups of counters in order from smallest to greatest. Identify a middle amount between smallest and greatest. Up to 5 objects in each group, all sets of objects are the same and presented in lines.

Expected Arrange groups of counters in order from greatest to smallest. Identify a middle amount between greatest and smallest. Up to 10 objects in each group, sets of objects are different and presented in lines or groups.

Greater Depth Arrange groups of counters in order from greatest to smallest. Identify a middle amount between greatest and smallest. Up to 10 objects in each group, objects are mixed in each representation and presented in a random arrangement.

Questions 2, 5 and 8 (Reasoning)

Developing Determine whether a group of objects are ordered correctly; if not, explain the mistake. Using up to 5 objects, all sets of objects are the same and presented in lines.

Expected Determine whether a group of objects are ordered correctly; if not, explain the mistake. Using up to 10, sets of objects are different and presented in lines or groups.

Greater Depth Determine whether a group of objects are ordered correctly; if not, explain the mistake. Using up to 10 objects, objects are mixed in each representation and presented in a random arrangement.

Questions 3, 6 and 9 (Reasoning)

Developing Read two statements describing the order of three groups of objects up to 5. Explain which statement is correct, and why. All sets of objects are the same and presented in lines.

Expected Read two statements describing the order of three groups of objects up to 10. Explain which statement is correct, and why. Sets of objects are different and presented in lines or groups.

Greater Depth Read two statements describing the order of three groups of objects up to 10. Explain which statement is correct, and why. Objects are mixed in each representation and presented in a random arrangement. Includes the use of the inequality symbols.

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

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

Ordering Objects

1a. Dec is arranging groups of counters in order from greatest to smallest.



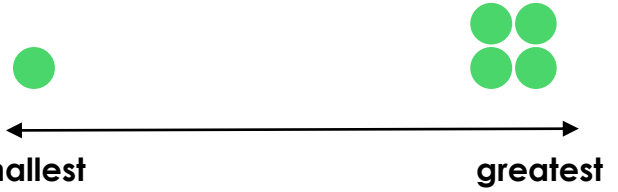
How many counters could be in the group in the middle?



PS

Ordering Objects

1b. Kim is arranging groups of counters in order from smallest to greatest.

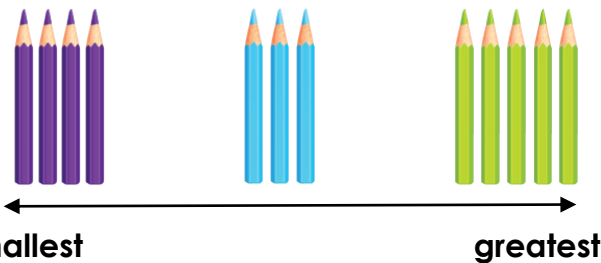


How many counters could be in the group in the middle?



PS

2a. Sam is ordering groups of crayons from greatest to smallest.

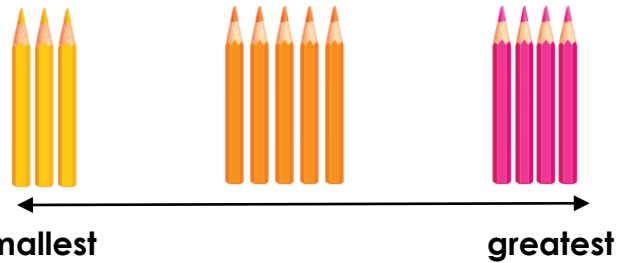


Explain Sam's mistake.



R

2b. Amir is ordering groups of crayons from greatest to smallest.

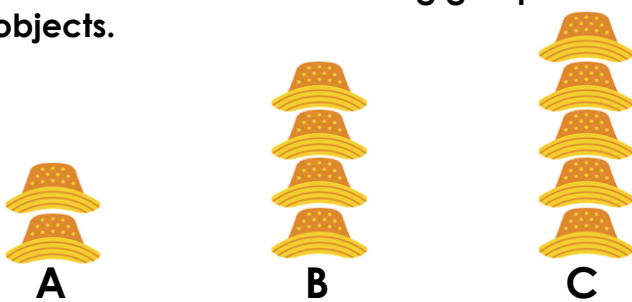


Explain Amir's mistake.



R

3a. The children are ordering groups of objects.



Hana

Group C is the greatest number.

Group B is the smallest number.



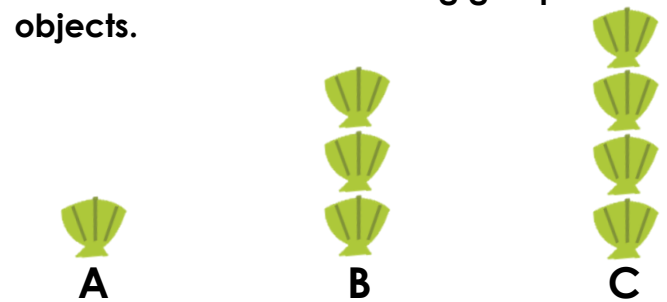
Pete

Who is correct? Prove it.



R

3b. The children are ordering groups of objects.



Alex

Group A is the smallest number.

Group B is the greatest number.



Rob

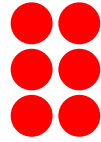
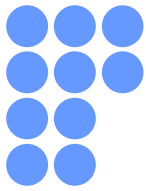
Who is correct? Prove it.



R

Ordering Objects

4a. Amir is arranging groups of counters in order from greatest to smallest.



← greatest smallest →

How many counters could be in the group in the middle?



PS

Ordering Objects

4b. Sally is arranging groups of counters in order from smallest to greatest.



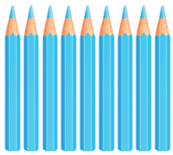
← smallest greatest →

How many counters could be in the group in the middle?



PS

5a. Lena is ordering groups of objects from greatest to smallest.



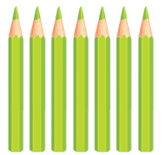
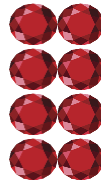
← greatest smallest →

Explain Lena's mistake.



R

5b. Kashif is ordering groups of objects from greatest to smallest.



← greatest smallest →

Explain Kashif's mistake.



R

6a. The children are ordering groups of objects.



A



B



C



Mia

Group C is the smallest number.

Group B is the greatest number.



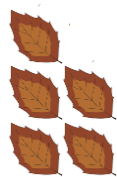
Tarik

Who is correct? Prove it.



R

6b. The children are ordering groups of objects.



A



B



C



Paddy

Group B is the smallest number.

Group A is the greatest number.



Leah

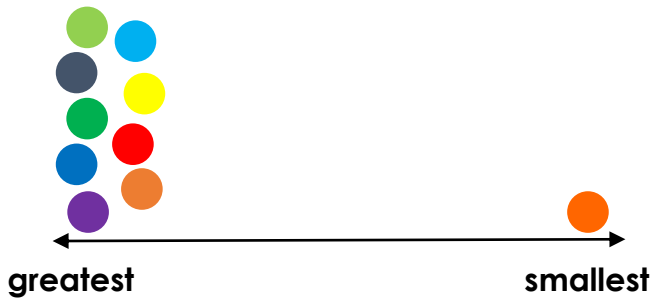
Who is correct? Prove it.



R

Ordering Objects

7a. Erika is arranging groups of counters in order from greatest to smallest.



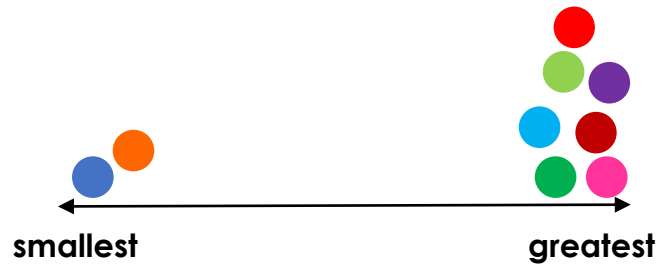
How many counters could be in the group in the middle?



PS

Ordering Objects

7b. Molly is arranging groups of counters in order from smallest to greatest.

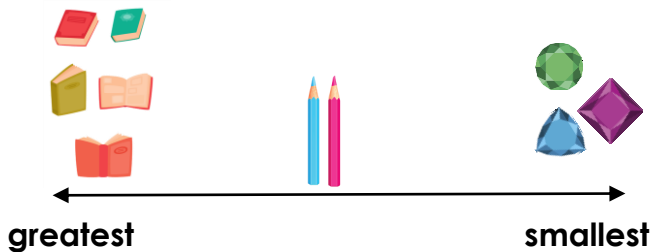


How many counters could be in the group in the middle?



PS

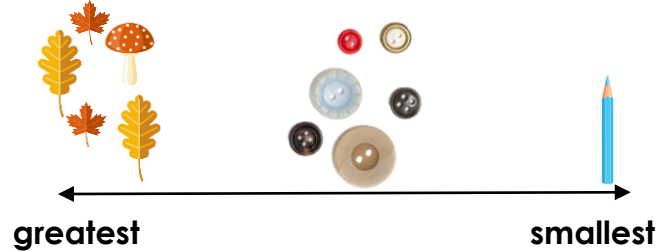
8a. Freida is ordering groups of objects from greatest to smallest.



Explain Freida's mistake.



8b. Tom is ordering groups of objects from greatest to smallest.

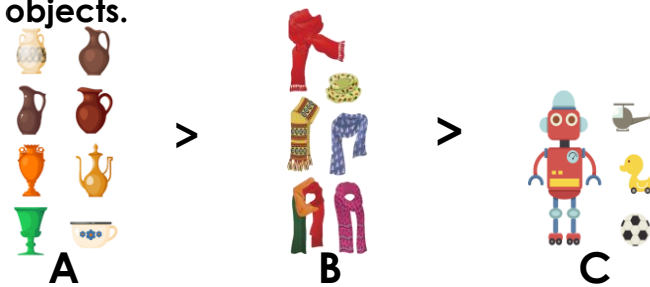


Explain Tom's mistake.



R

9a. The children are ordering groups of objects.



Jade

Group A is the greatest number.

Group B is the smallest number.



Callum

Who is correct? Prove it.



R

9b. The children are ordering groups of objects.



Lou

Group C is the smallest number.

Group B is the greatest number.



Mai

Who is correct? Prove it.



R

Reasoning and Problem Solving Ordering Objects

Developing

- 1a. 3 or 4
- 2a. 3 is smaller than 4.
- 3a. Hana is correct because 5 is greater than 4 or 2.

Expected

- 4a. 7, 8 or 9
- 5a. 10 is greater than 9.
- 6a. Mia is correct because 3 is smaller than 5 or 7.

Greater Depth

- 7a. 2, 3, 4, 5, 6, 7 or 8
- 8a. 2 is smaller than 3.
- 9a. Jade is correct because 8 is greater than 6 or 4.

Reasoning and Problem Solving Ordering Objects

Developing

- 1b. 2 or 3
- 2b. 5 is greater than 4.
- 3b. Alex is correct because 1 is smaller than 3 or 4.

Expected

- 4b. 5, 6 or 7
- 5b. 5 is smaller than 7.
- 6b. Paddy is correct because 4 is smaller than 5 or 8.

Greater Depth

- 7b. 3, 4, 5 or 6
- 8b. 6 is greater than 5.
- 9b. Lou is correct because 1 is smaller than 6 or 8.