Reasoning and Problem Solving
Step 7: Order Groups of Objects

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: (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, least

Differentiation:

Questions 1, 4 and 7 (Problem Solving)
Developing Draw objects to order 3 groups correctly, using the language smallest and greatest. Includes numbers to 10 with objects arranged in a line.
Expected Draw objects to order 3 groups correctly, using the language smallest and greatest. Includes numbers to 20 with objects arranged in groups.
Greater Depth Draw objects to order 3 groups correctly, using the language smallest and greatest. Includes numbers to 20 with objects arranged randomly.

Questions 2, 5 and 8 (Reasoning)
Developing Explain who is correct using knowledge of ordering 3 groups. Includes numbers to 10 with objects arranged in a line.
Expected Explain who is correct using knowledge of ordering 3 groups. Includes numbers to 20 with objects arranged in groups.
Greater Depth Explain who is correct using knowledge of ordering 3 groups. Includes numbers to 20 with objects arranged randomly.

Questions 3, 6 and 9 (Reasoning)
Developing Explain if a statement is correct using knowledge of ordering 3 groups, using the language smallest and greatest. Includes numbers to 10 with objects arranged in a line.
Expected Explain if a statement is correct using knowledge of ordering 3 groups, using the language smallest and greatest. Includes numbers to 20 with objects arranged in groups.
Greater Depth Explain if a statement is correct using knowledge of ordering 3 groups, using the language smallest and greatest. Includes numbers to 20 with objects arranged randomly.

More Year 1 Place Value resources.

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

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Order Groups of Objects

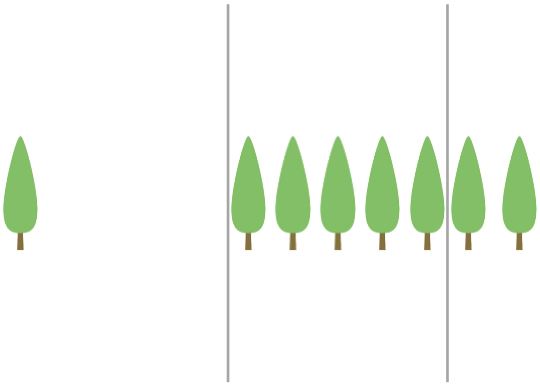
1a. Draw more flowers to make the order correct.

smallest → greatest

D PS

Order Groups of Objects

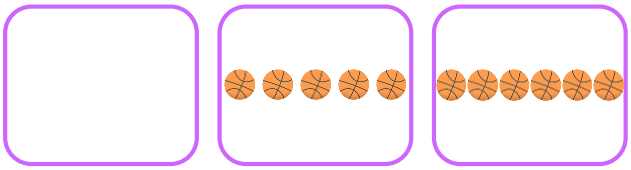
1b. Draw more trees to make the order correct.



greatest → smallest

D PS

2a. Two children are ordering groups of balls.



Joe: 6 balls could fit into the gap.

Dani: 3 balls could fit into the gap.

Who is correct? Explain how you know.

D R

2b. Two children are ordering groups of ladybirds.

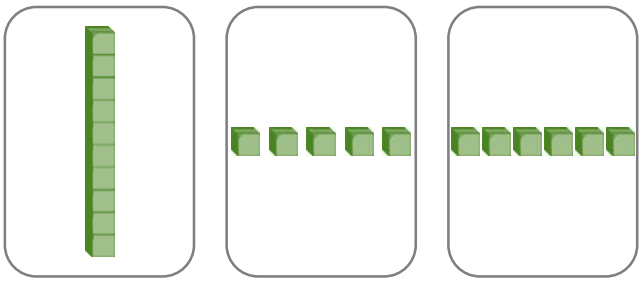
Flo: 5 ladybirds could fit into the gap.

Bill: 4 ladybirds could fit into the gap.

Who is correct? Explain how you know.

D R

3a. Fred has three sets of Base 10.



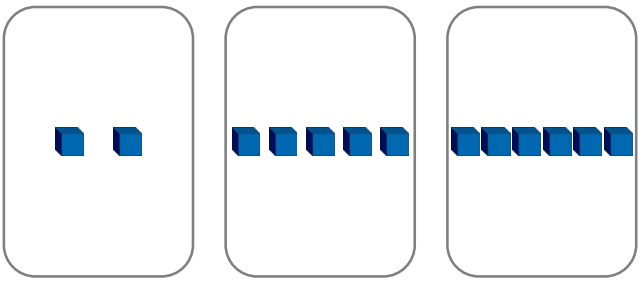
Fred says,

I have ordered the Base 10 from greatest to smallest.

Is he correct? Prove it.

D R

3b. Meg has three sets of Base 10.



Meg says,

I have ordered the Base 10 from smallest to greatest.

Is she correct? Prove it.

D R

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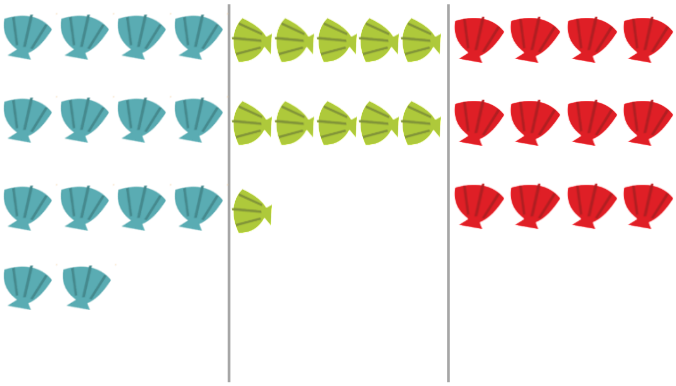
Order Groups of Objects

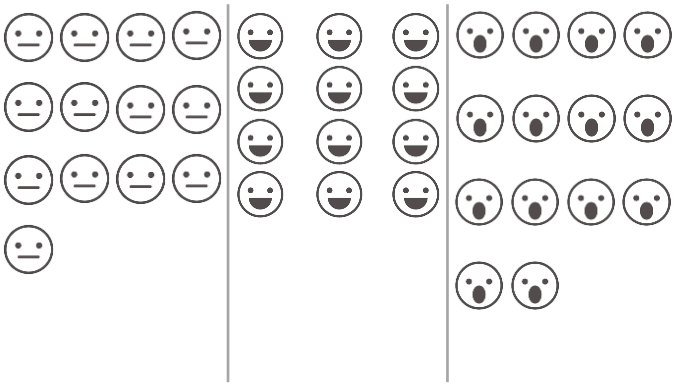
4a. Draw more shells to make the order correct.



smallest → greatest

E PS

4b. Draw more faces to make the order correct.



greatest → smallest

E PS

5a. Two children are ordering groups of shoes.

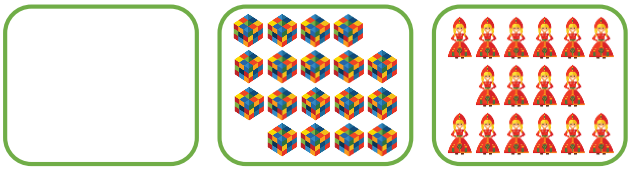
Mo: 16 shoes could fit into the gap.

Jess: 11 shoes could fit into the gap.

Who is correct? Explain how you know.

E R

5b. Two children are ordering groups of toys.



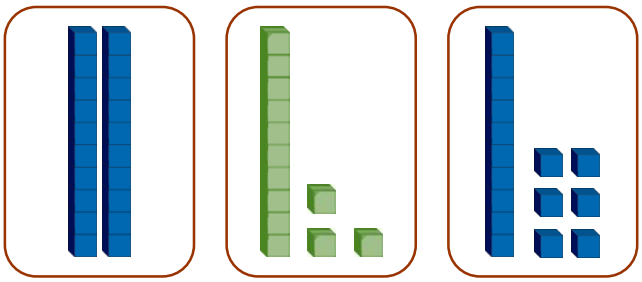
Ella: 19 toys could fit into the gap.

Ali: 17 toys could fit into the gap.

Who is correct? Explain how you know.

E R

6a. Brett has three sets of Base 10.



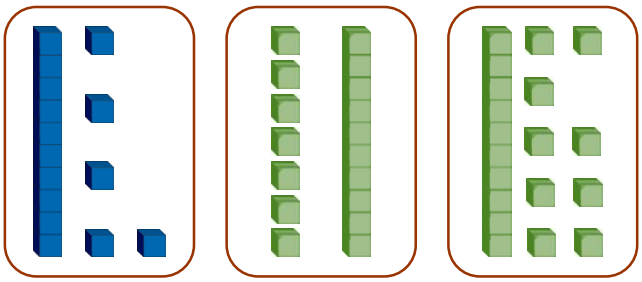
Brett says,

I have ordered the Base 10 from greatest to smallest.

Is he correct? Prove it.

E R

6b. May has three sets of Base 10.



May says,

I have ordered the Base 10 from smallest to greatest.

Is she correct? Prove it.

E R

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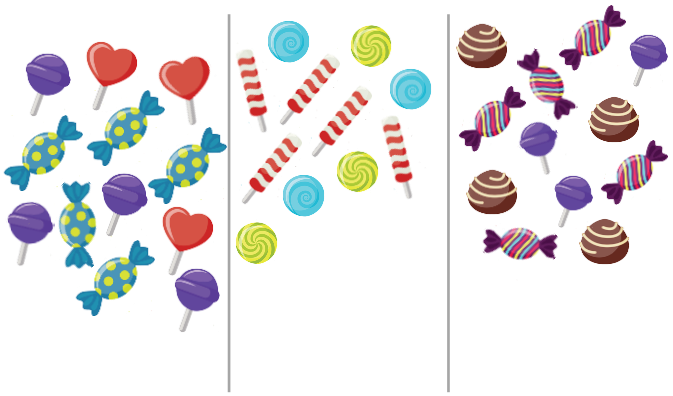
Order Groups of Objects

Order Groups of Objects

7a. Draw more sweets to make the order correct.

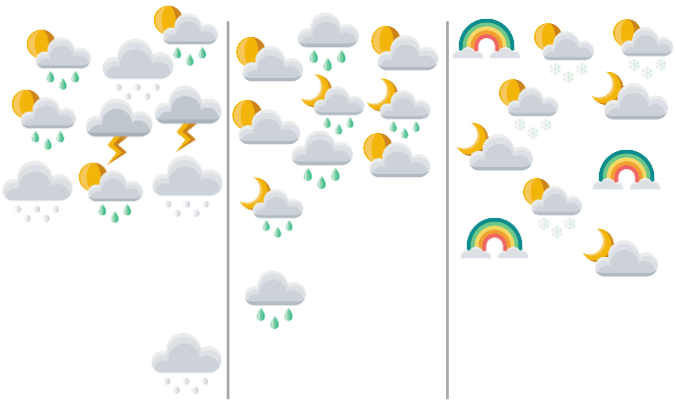


smallest → greatest

GD

PS

7b. Draw more clouds to make the order correct.

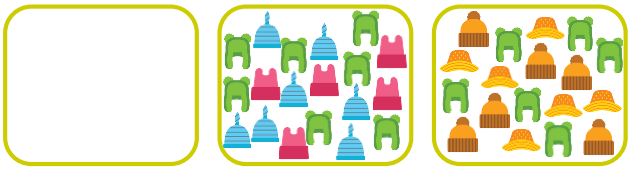


greatest → smallest

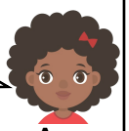
GD

PS

8a. Two children are ordering groups of hats.



Sam: 17 hats could fit into the gap.



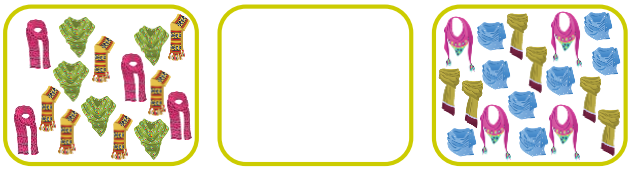
Ava: 20 hats could fit into the gap.

Who is correct? Explain how you know.

GD

R

8b. Two children are ordering groups of scarves.



Sai: 19 scarves could fit into the gap.

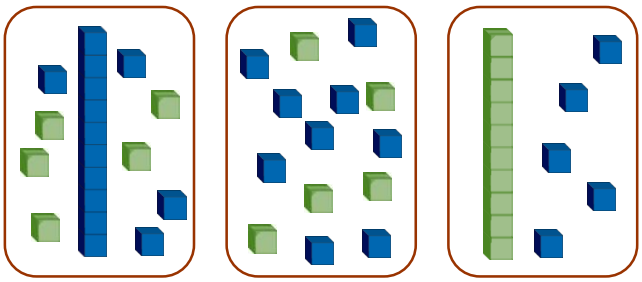
Jim: 16 scarves could fit into the gap.

Who is correct? Explain how you know.

GD

R

9a. Ted has three sets of Base 10.



Ted says,

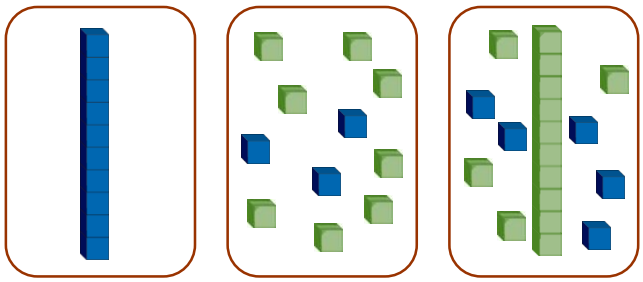
I have ordered the Base 10 from greatest to smallest.

Is he correct? Prove it.

GD

R

9b. Nat has three sets of Base 10.



Nat says,

I have ordered the Base 10 from smallest to greatest.

Is she correct? Prove it.

GD

R

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Reasoning and Problem Solving
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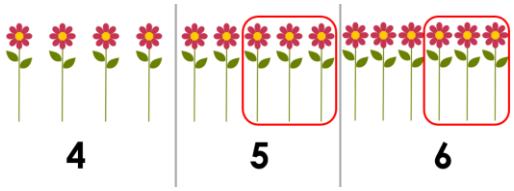
Developing

1a. Various answers, for example:

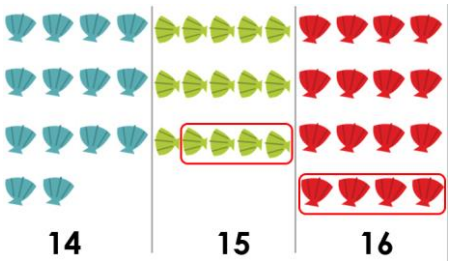


2a. Dani is correct because 3 is smaller than 5. The numbers are ordered from smallest to greatest.

3a. Fred is incorrect because 5 is smaller than 6. Fred's order should be: 10, 6 and 5.

Expected

4a. Various answers, for example:

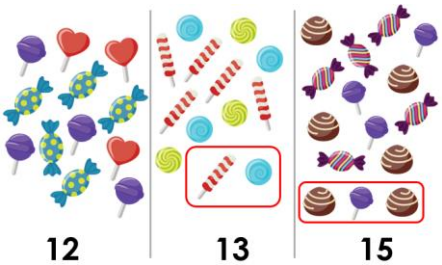


5a. Mo is correct because 16 is smaller than 20 but greater than 12. The numbers are ordered from greatest to smallest.

6a. Brett is incorrect because 13 is smaller than 16. Brett's order should be: 20, 16 and 13.

Greater Depth

7a. Various answers, for example:



8a. Ava is correct because 20 is greater than 19. The numbers are ordered from greatest to smallest.

9a. Ted is incorrect because 15 is greater than 14. Ted's order should be: 19, 15 and 14.

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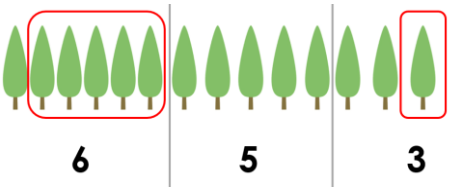
Developing

1b. Various answers, for example:

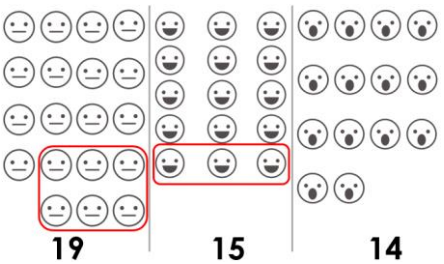


2b. Bill and Flo are both correct because 4 and 5 are both larger than 3 and smaller than 6. The numbers are ordered from smallest to greatest.

3b. Meg is correct because 5 is greater than 2 and 6 is greater than 5.

Expected

4b. Various answers, for example:

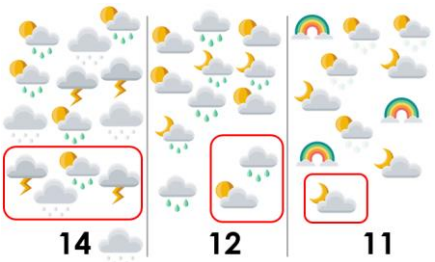


5b. Ella is correct because 19 is greater than 18. The numbers are ordered from greatest to smallest.

6b. May is correct because 17 is greater than 15 and 19 is greater than 17.

Greater Depth

7b. Various answers, for example:



8b. Jim is correct because 16 is greater than 15 but smaller than 18. The numbers are ordered from smallest to greatest.

9b. Nat is correct because 11 is greater than 10 and 19 is greater than 11.

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