Reasoning and Problem Solving
Step 8: Order Numbers

Teaching note: Inequality symbols are included in this step as they were introduced in Block 1 Step 10. These can be used as a visual aid to improve fluency as children continue comparing numbers and amounts.

National Curriculum Objectives:

Mathematics Year 1: (1N2c) Read and write numbers from 1 to 20 in numerals and words
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
This resource also covers the following objective from Year 2:
Mathematics Year 2: (2N2b) Compare and order numbers from 0 up to 100; use <, > and = signs

Differentiation:

Questions 1, 4 and 7 (Reasoning)
Developing Spot the mistake when ordering numbers to 10 in ascending order. Using numerals and pictorial representations for each number.
Expected Spot the mistake when ordering numbers to 20 in ascending and descending order. Numbers represented by a combination of numerals and Base 10.
Greater Depth Spot the mistake when ordering numbers to 20 in ascending and descending order. Numbers represented by a combination of numerals and words.

Questions 2, 5 and 8 (Problem Solving)
Developing Order numbers to 10 to find the smallest. Using numbers as described for question 1.
Expected Order numbers to 20 in ascending and descending order to find the smallest/greatest. Using numbers as described for question 4.
Greater Depth Order numbers to 20 in ascending and descending order to find the smallest/greatest. Using numbers as described for question 7.

Questions 3, 6 and 9 (Problem Solving)
Developing Insert a missing number, using knowledge of ordering numbers to 10 in ascending order. Using numbers as described for question 1.
Expected Insert a missing number, using knowledge of ordering numbers to 20 in ascending and descending order. Using numbers as described for question 4.
Greater Depth Insert a missing number, using knowledge of ordering numbers to 20 in ascending and descending order. Using numbers as described for question 7.

More Year 1 Place Value resources

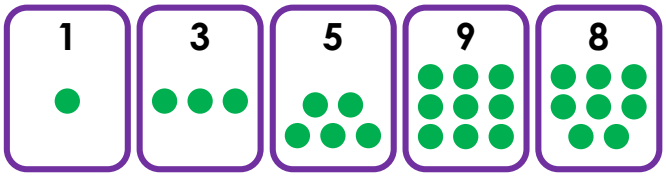
Did you like this resource? Don't forget to review it on our website.

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Order Numbers

1a. Pat has ordered some numbers from smallest to greatest.





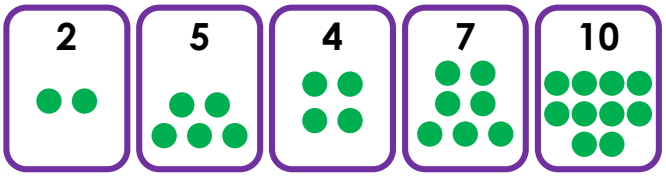
What is her mistake? Explain how you know.

D

R

1b. Todd has ordered some numbers from smallest to greatest.





What is his mistake? Explain how you know.

D

R

2a. Three friends have a spelling competition.



Jan

I scored ● more than Tim.



Tim

I scored 9



Nikki

I scored 3

Who scored the least points?

D

PS

2b. Three friends have a spelling competition.



Dora

I scored 6



Raj

I scored ●●● more than Dora.



Dot

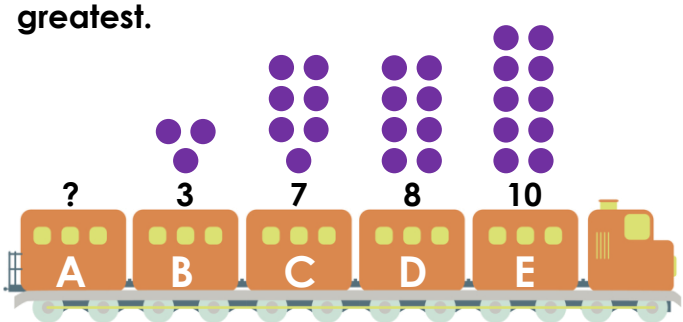
I scored 5

Who scored the least points?

D

PS

3a. The carts are ordered from smallest to greatest.

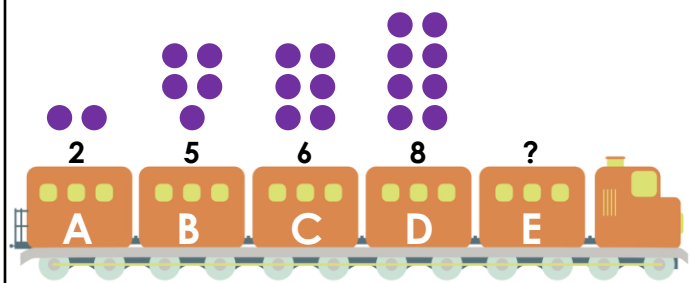


What could cart A be?

D

PS

3b. The carts are ordered from smallest to greatest.



What could cart E be?

D

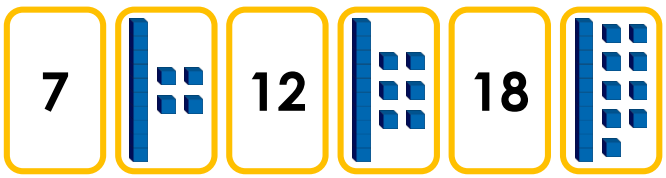
PS

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Order Numbers

4a. Jacob has ordered some numbers from smallest to greatest.





What is his mistake? Explain how you know.

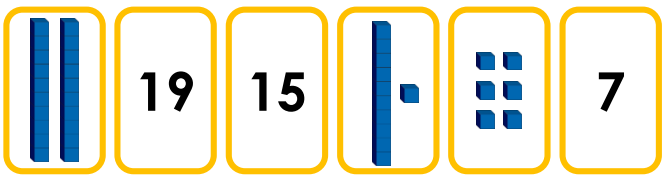
E

R

Order Numbers

4b. Sam has ordered some numbers from greatest to smallest.



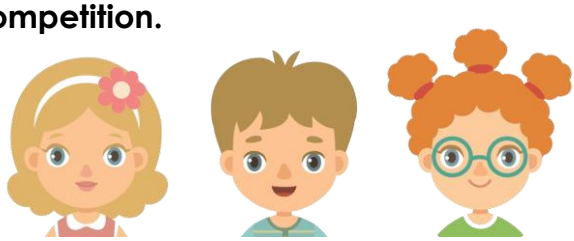


What is his mistake? Explain how you know.

E

R

5a. Three friends have a spelling competition.



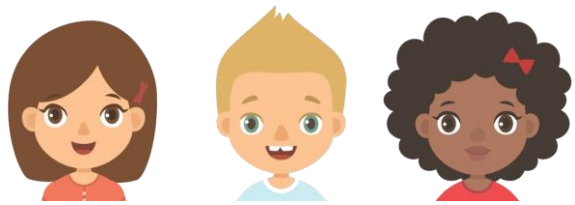
Dot	Ted	Pam
I scored 18 points.	I scored 2 more than Dot.	I scored 

Who scored the most points?

E

PS

5b. Three friends have a spelling competition.



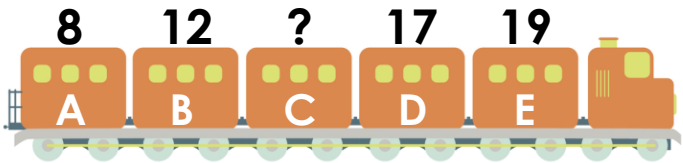
Penny	Tom	Shaz
I scored 	I scored 9.	I scored 3 less than Penny.

Who scored the most points?

E

PS

6a. The carts are ordered from smallest to greatest.

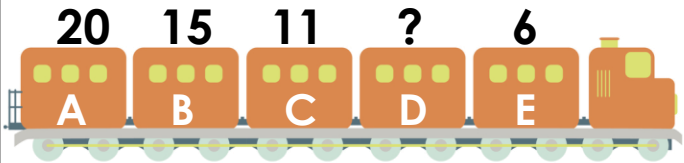


What could cart C be?

E

PS

6b. The carts are ordered from greatest to smallest.



What could cart D be?

E

PS

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Order Numbers

7a. Jan has ordered some numbers from smallest to greatest.



one	10	15	twelve	19	twenty

What is her mistake? Explain how you know.

GD R

Order Numbers

7b. Tim has ordered some numbers from greatest to smallest.



20	18	fifteen	13	nine	ten

What is his mistake? Explain how you know.

GD R

8a. Three friends have a spelling competition.



Dora

I scored seventeen points.



Nikki

I scored 2 more than Dora.



Todd

I scored fifteen points.

Who scored the most points?
Who scored the least points?

GD PS

8b. Three friends have a spelling competition.



Pat

I scored 6 less than Raj.



Jacob

I scored nine.



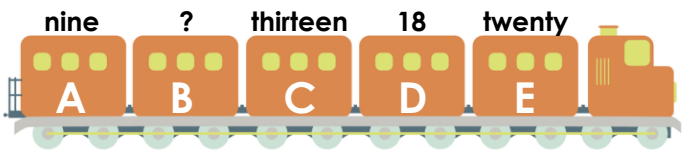
Raj

I scored nineteen.

Who scored the most points?
Who scored the least points?

GD PS

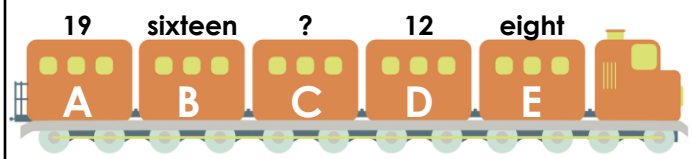
9a. The carts are ordered from smallest to greatest.



What could cart B be?

GD PS

9b. The carts are ordered from greatest to smallest.



What could cart C be?

GD PS

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Reasoning and Problem Solving
Order Numbers

Developing

1a. Pat has swapped 9 and 8 in the series.
2a. Nikki
3a. 1 or 2

Expected

4a. Jacob has swapped 12 and 14 in the series.
5a. Ted
6a. Various answers, for example: 13; 14; 15; 16

Greater Depth

7a. Jan has swapped 15 and twelve in the series.
8a. Nikki has the most points and Todd has the least points.
9a. Various answers, for example: 10; 11; 12

Reasoning and Problem Solving
Order Numbers

Developing

1b. Todd has swapped 5 and 4 in the series.
2b. Dot
3b. 9 or 10

Expected

4b. Sam has swapped 6 and 7 in the series.
5b. Penny
6b. Various answers, for example: 10; 9; 8; 7

Greater Depth

7b. Tim has swapped nine and ten in the series.
8b. Raj has the most points and Jacob has the least points.
9b. Various answers, for example: 15, 14, 13

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