Reasoning and Problem Solving Step 4: Order Lengths

National Curriculum Objectives:

Mathematics Year 2: (2M1) Compare and order lengths, mass, volume/capacity and record the results using >, < and =

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Match three items to their lengths when given their order. Lengths in whole cm and m. Same measures (cm or m) numerals only.

Expected Match four items to their lengths when given their order. Lengths in whole cm and m. Some mixed measures (cm and m) numerals and words.

Greater Depth Match four items to their lengths when given their order. Lengths in whole cm and m. Mixed measures (m and cm and >100cm) numerals and words.

Questions 2, 5 and 8 (Problem Solving)

Developing Order three statements use a more/less than symbol involving measures in whole cm and m. Same measures (cm or m) numerals only. Addition of 2 items without exchanging.

Expected Order four statements use a more/less than symbol involving measures in whole cm and m. Some mixed measures (cm and m) numerals and words. Addition of 2 items without exchanging.

Greater Depth Order four statements use a more/less than symbol involving measures in whole cm and m. Mixed measures (m and cm and >100cm) numerals and words. Addition of 2 items with some exchanging.

Questions 3, 6 and 9 (Reasoning)

Developing Explain whether a statement is correct or not when ordering items according to length. One fact and 2 ordered items given.

Expected Explain whether a statement is correct or not when ordering items according to length. One fact and 3 ordered items given.

Greater Depth Explain whether a statement is correct or not when ordering items according to length. Two facts and 3 unordered items given.

More Year 2 Length and Height resources.

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



Order Lengths

Order Lengths

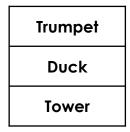
1a. These toys have been placed in order of length from longest to shortest.







Match the toy to its length.



56cm
11cm
34cm

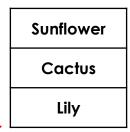
1b. These flowers have been placed in order of height from shortest to longest.







Match the food to its height.



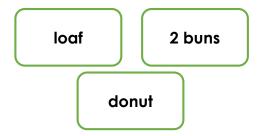




2a. Here are the lengths of some foods.

Item	Length
loaf	42cm
donut	12cm
bun	20cm

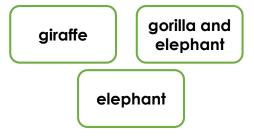
Use the symbol < to order the statements.



2b. Here are the heights of some animals.

Item	Height
elephant	3m
giraffe	6m
gorilla	1m

Use the symbol > to order the statements.





3a. Samantha has ordered her toy aliens.





Hayley's one-eyed alien is taller than Samantha's one-eyed alien.

Hayley says,

I have the tallest alien.



Is she correct? Convince me.





3b. Kyle has picked and ordered his fruit.







Alex has picked a starfruit that is smaller than Kyle's.

Alex says,

I have picked the smallest fruit.



Is he correct? Convince me.







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Order Lengths

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4a. These toys have been placed in order of length from longest to shortest.











Match the toy to its length.



66cm 46cm 1m 4cm 21cm

Match the food to its height.



1m 34cm 27cm 17cm 76cm

5a. Here are the lengths of some toys.

Item	Length
car	twenty two centimetres
toy snake	55cm
dolls' house	1m 15cm

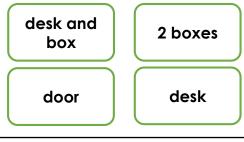
5b. Here are the heights of some items.

Item	Height
desk	61cm
door	1m 50cm
box	30cm

Use the symbol < to order the statements.



Use the symbol > to order the statements.



6a. Katie has picked and ordered these flowers.



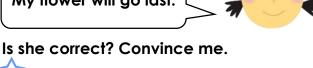
Carla has a sunflower that is taller than

Katie's sunflower.



My flower will go last.





6b. Billy ordered his toy vehicles.



Zack has a car that is shorter than Billy's.

Billy says,

I have the shortest vehicle.



Is he correct? Convince me.







Order Lengths

Order Lengths

7a. These plants have been placed in order of height from shortest to tallest.



Match the toy to its length.



30m
126cm
11m
1m 11cm

7b. These toy vehicles have been placed in order of length from longest to shortest.









Match the vehicle to its length.

	Ambulance	
	Taxi	
	Bus	
>	Scooter	

164cm 98cm 1m 32cm 78cm

8a. Here are the heights of some children.

Name	Height
Katie	85cm
Laura	1m 5cm
Lark	103cm

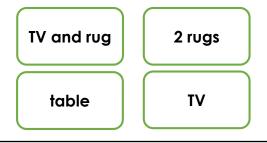
Use the symbol < to order the statements.



8b. Here are the lengths of some items.

Item	Length
table	154cm
TV	60cm
rug	1m 5cm

Use the symbol > to order the statements.



9a. Henry has grown these vegetables.







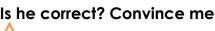
Mike has grown a potato than is longer than Henry's and a radish that is shorter than Henry's.

Mike says,

I have grown the shortest vegetable.



Is he correct? Convince me.



9b. Cassie has picked these flowers.







Sunflower

Millie has picked a lily that is shorter than Cassie's and a sunflower that is taller than Cassie's.

Millie says,

I have picked the tallest flower.



Is she correct? Convince me.





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Reasoning and Problem Solving Order Lenaths

Reasoning and Problem Solving Order Lengths

Developing

1a. Trumpet: 34cm, Duck: 11cm, Tower: 56cm

2a. donut < 2 buns < loaf

3a. No because Samantha has an alien that is taller than the one-eyed alien so that might be the tallest alien.

Expected

4a. Bus: 1m 4cm, Helicopter: 21cm, Boat: 46cm, Scooter: 66cm.

5a. two cars < toy snake < car and toy snake < dolls' house

6a. No because Katie has a flower that is taller than the sunflower so that might be the tallest flower.

Greater Depth

7a. Palm tree: 11m, Sunflower: 126cm, Cactus: 1m 11cm, Pine tree: 30m

8a. Laura < Katie < Katie and Lark < Lark and Laura

9a. Yes because Mike's radish is shorter than Henry's radish and Henry's radish is the shortest of his vegetables.

<u>Developing</u>

1b. Sunflower: 56cm, Cactus: 98cm, Lily: 49cm

2b. giraffe > gorilla and elephant > elephant

3b. Yes because Kyle's starfruit is the shortest of his fruits and Alex's is smaller.

Expected

4b. Pineapple: 76cm, Watermelon: 27cm, Pumpkin: 1m 34cm, Carrot: 17cm.
5b. door > desk and box > desk > 2 boxes

6b. No because Zack's car is shorter than Billy's car so Zack has the shortest vehicle.

Greater Depth

Bus: 164cm, Scooter: 78cm 8b. 2 rugs > TV and rug > table < TV 9b. No because Cassie has a lily that is taller than her sunflower so it might be taller than Millie's sunflower.

7b. Ambulance: 1m 32cm, Taxi: 98cm,

