The following questions have been designed in order to help the children consolidate all recent learning around Length and Measure.

Reasoning and Problem Solving — Length and Height Consolidation — Year 2

Today is Toby's birthday. He is 7 years old and his mum has organised a birthday party for him. She has invited lots of his friends to help him celebrate. She has also organised a scavenger hunt. The first child to collect everything on the list wins a special prize! The children are excited to get started. The first item on the list says:

Find a present that has a length of 6cm.

Tiana thinks that she has found the right present. Is she correct? Explain why.



Sam thinks he has found the right present. Is he correct? Explain why.



The children race out into the garden to continue the hunt. The next item on the list says:

Find some bunting that is shorter than 1 metre.

2. The children decide to measure all of the bunting in the garden. They think it's a good idea to share their results.



Tom thinks that bunting C is shorter than 1 metre. Is he correct? Explain why.

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Reasoning and Problem Solving - Length and Height Consolidation - Year 2

Meghan is having trouble med	isuring her bunting.						
She knows that it's bigger that but smaller than 1m and 45cm her bunting must be 1m and 2 Is Meghan correct? Explain wh	n 1m and 30cm n. She decides that 25cm long.						
It's time for a quick drink and needed rest, they read the nex		with the hunt. After a much					
Find the longest set of lanterns in the garden.							
3. The children measure each together. To help them compathe symbols <, > and =. Can yplace?	re the length of each set of la	nterns, they decide to use					
Set A is 10cm and 15cm long	Set B is 20cm and 9cm long	Set C is 15cm and 18cm long					
10cm	n + 15cm 20cm + 9cm						
10cm	n + 15cm 15cm + 18cm	1					
15cm	n + 18cm 20cm + 9cm						
Using this information, Ted de Set A. Is he correct? Explain w		longest as it is longer than					
Tobu and his friends are havin	a a great time on the scaver	er hunt. They run ground					

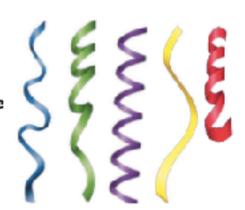
Toby and his friends are having a great time on the scavenger hunt. They run around the garden trying to find the tallest trees, the shortest sticks and flowers that are the same length. No one is sure yet who is going to win. They all think that they have collected items of the correct length. Mum decides to set them another tricky challenge!

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They all read the tricky challenge together. It says:

Solve the riddle to find the longest streamer and tie it to the 3rd tallest flower.

4. The children find five streamers hanging from a tree. On one of the branches, there is a riddle. Martha reads the riddle aloud. She says, "The red streamer is longer than the yellow streamer but it's not as long as the blue streamer. The green streamer is longer than the blue streamer but it's not as long as the purple streamer." In order to find the longest streamer, the children will have to order them from shortest to lonest.



Help the children solve the riddle and place the streamers in the correct order.

shortest					longest
Next, the children tallest.	measure the flower	s carefully 1	to help the	m find out w	hich is the 3 rd
59cm	68cm	120cm	1	m 10cm	1m 30cm
Charlie says:			Is Charli	e correct? Ex	plain why.
	This is how I hav ordered the flower from shortest to tallest. This mean that the 3 rd talles flower is 120cm.	rs s			

Reasoning and Problem Solving - Length and Height Consolidation - Year 2

The children have just one more task to do before they can enjoy the party food and games. Their final task says:

Find the tallest party hat for Toby to wear at the party.



Hat A is 4cm tall.



Hat B is 6cm tall.



Hat C is twice as tall as hat B.

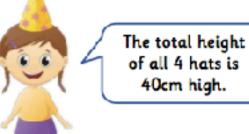


Hat D is five times taller than hat A.

5. The children search the party room and find four different party hats. Help them work out which is the tallest? Explain how you worked out your answer.

Mum says that there will be an extra treat for anyone who can work out the total height of the four hats.

Sally says:



Is Sally correct? Explain why.

The scavenger hunt is finally over. Mum thinks that all of the children should get a prize because they have all worked so hard. Now the party can really begin. Well

done everyone!



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Reasoning and Problem Solving — Multiplication and Division Consolidation — Year 2

1. Tiana hasn't found the right present because she didn't line the present up with the 0 on the ruler. The present is only 5cm long.

Sam is correct, even though he didn't start at 0. The difference between from 4cm and 10cm is 6cm.

2. Tom is wrong because 100cm is the same as 1m, so 110cm would be longer than 1 metre.

Meghan is not correct as she knows the bunting is at least 1m and 30cm long. 1m and 25cm is shorter than 1m and 30cm.

3. 10cm + 15cm < 20cm + 9cm 10cm + 15cm < 15cm + 18cm 15cm + 18cm > 20cm + 9cm

Ted is wrong because although Set B is longer than Set A, Set C is longer than Set B.

4. shortest longest

yellow red blue green purple

Charlie is not correct because 120cm is longer than 1m and 10cm. The 3rd tallest flower is 1m and 10cm.

5. Hat C is $2 \times 6cm = 12cm$. Hat D is $5 \times 4cm = 20cm$. Hat D is the tallest.

No Sally isn't correct because 4cm + 6cm + 12cm + 20cm = 42cm.