

# Discussion Problems

## Step 3: Compare Lengths

### National Curriculum Objectives:

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

Mathematics Year 2: (2M2) [Choose and use appropriate standard units to estimate and measure length/height in any direction \(m/cm\); mass \(kg/g\); temperature \(° C\); capacity \(litres/ml\) to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels](#)

### About this resource:

This resource has been designed for pupils who understand the concepts within [this step](#). It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

More [Year 2 Length and Height](#) resources.

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

# Compare Lengths

1. Jade is comparing the length of bunting for her party.

She says,



All the lengths are a multiple of 10. The difference between the longest and shortest bunting is 30 cm.



<



<



>



Investigate the possible length of each style of bunting.

DP

2. Use the cards below to explore the possible ways of completing the comparison statements. You can use each card more than once.

34 cm + 23 cm

50 cm – 9 cm

12 cm + 45 cm

15 cm + 13 cm

19 m + 9 m

15 m + 13 m

is longer than



is shorter than



is equal to

DP

# Compare Lengths

1. Jade is comparing the length of bunting for her party.

She says,



All the lengths are a multiple of 10. The difference between the longest and shortest bunting is 30 cm.



Bunting A

<



Bunting B



Bunting C

<



Bunting A



Bunting D

>



Bunting B

Investigate the possible length of each style of bunting.

Various answers, for example: Bunting A – 70 cm; Bunting B – 80 cm; Bunting C – 60 cm; Bunting D – 90 cm,

DP

2. Use the cards below to explore the possible ways of completing the comparison statements. You can use each card more than once.

34 cm + 23 cm

50 cm – 9 cm

12 cm + 45 cm

15 cm + 13 cm

19 m + 9 m

15 m + 13 m

Various answers, for example:

15 m + 13 m

is longer than

15 cm + 13 cm

50 cm – 9 cm

is shorter than

34 cm + 23 cm

34 cm + 23 cm

is equal to

12 cm + 45 cm

DP