



Bridge the gap – Who can build the widest bridge?

What is the widest bridge you can build using your Lego? It should have a span of at least 30cm (try to make it wider than this) and a height at its centre of at least 6cm. As before make it as colourful as possible using a variety of different pieces. Good luck with your project.



Challenges

1. Design and build your model.
2. Upload a photo of your finished model to padlet.
3. Take some measurements of your model to the nearest centimetre (cm) –
 - a. What is the span of your bridge?
 - b. What is the height of the bridge span above the desk (river!)?**(we will use this information later to see who has made the biggest bridge)**
4. The table below indicates how much each brick is worth. Using this information work out how much your bridge has cost to build?

Type	Cost	Type	Cost
1 single brick (1 dot) 	10p	1 single flat brick (1 dot) 	20p
Speciality bricks will cost 30p (doors, windows, roof tiles etc.)			

5. Put the measurements and the cost of your bridge in the comments of your padlet post.
If you were given the opportunity to trade some of your spare Lego at the trading box could you make a bigger wider bridge? nb: the bricks from the trading post may cost more - remember to make a note of this information.
6. How much did your bigger bridge cost to build?
7. What are its measurements now to the nearest centimetre (cm)?
8. What is the difference between the two bridges - in cost and span?
9. Finally take a photo of your bigger bridge and post it on padlet. Type something about the cost and span of your bridge in the comments.

