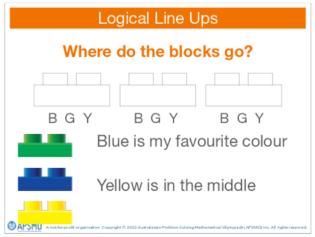


There are three parts to this guide.

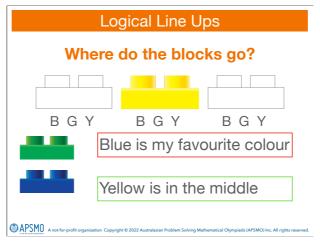
A quick introduction to logical line ups

A demonstration of the elimination strategy - and also deductive reasoning



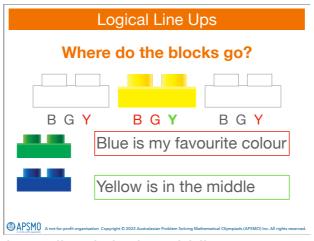
Both sentences are true - but which sentence helps us solve the puzzle?





That's right! It's great to like blue, but that doesn't help us know where to put it.

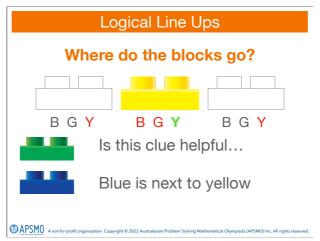
3



We don't just know that yellow is in the middle.

We know yellow is not at either end.

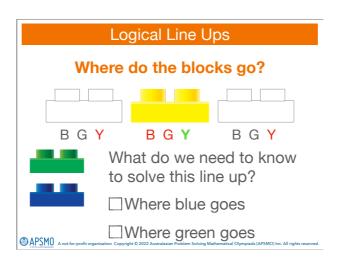
Can you see how Y has been marked red at the ends?

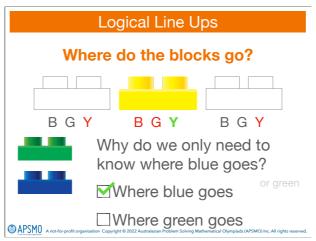


Not helpful at all - we can deduce blue is next to yellow if yellow is in the middle.

This doesn't help us know which side.

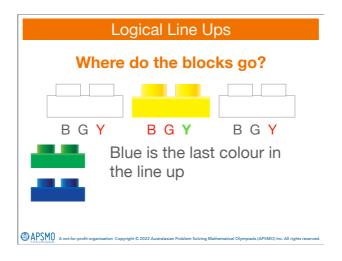
5

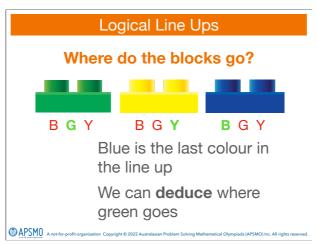




If we know where blue goes - we can reason where green must be. The same goes for green - if we know where it goes we can solve for blue.

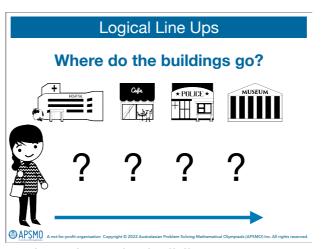
7





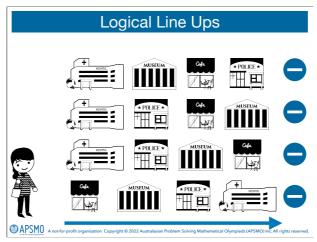
The steps we used for this simple puzzle are the same steps we can use for more complex puzzles.

9



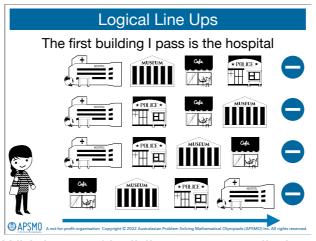
We are now going to solve where the buildings go.

This lady is walking to the right and will pass these four buildings.

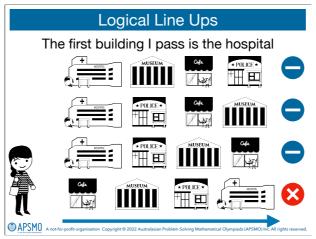


We need to deduce - using the clues that are coming - which set of buildings is the one she will pass.

11

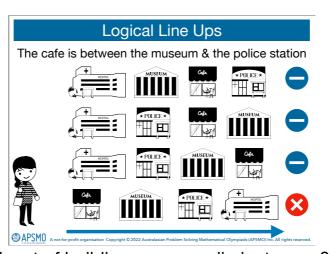


Read this first clue. Which set of buildings can we eliminate? Which one doesn't fit with this rule?

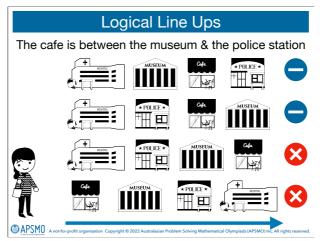


That's right! The cafe can't be first.

13

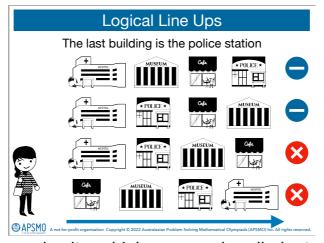


Another clue. Which set of buildings can we eliminate now?

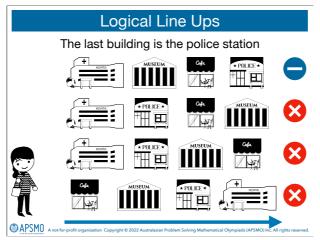


That's right - the cafe must be between two buildings - not on an end.

15

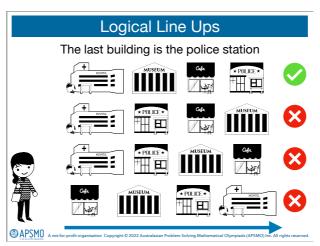


With this clue we can solve it - which one can be eliminated?

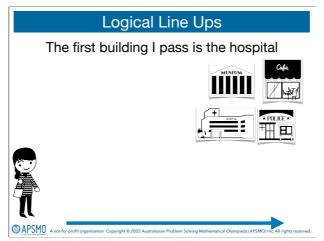


That's correct! The Museum can't be at the end.

17

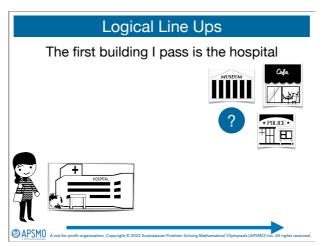


This is the correct order - and we found it using the elimination strategy.

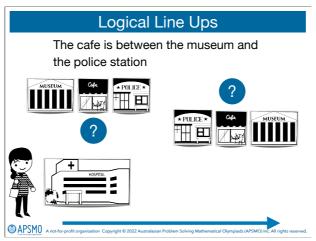


We can also solve these puzzles moving pieces about - they might be counters, blocks or picture cards. Here is what that looks like.

19

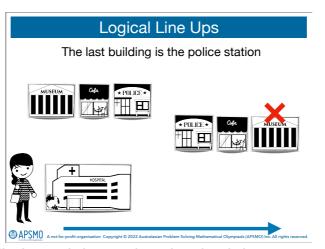


This first clue lets us put the hospital in place. We know nothing yet for the other buildings.

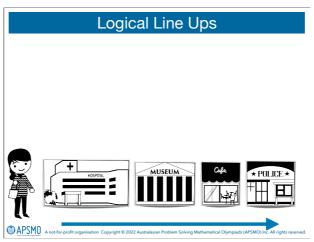


There are two ways that the cafe could be in the middle. We don't know enough to know which one is correct yet.

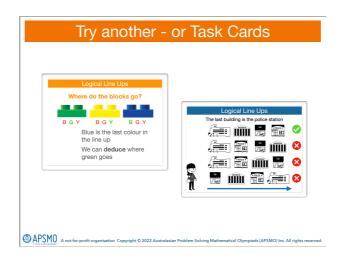
21

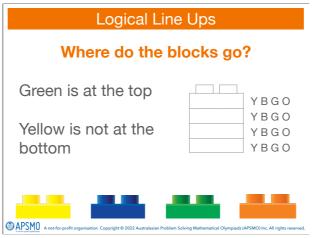


Now we do! Let's eliminated the option that had the museum at the end.



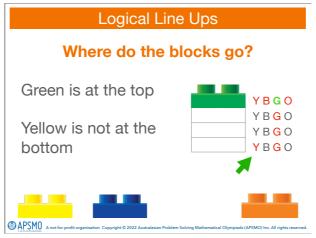
And now the puzzle is solved! Using counters, blocks or picture cards is a great way to order and reorder pieces until the puzzle is solved.



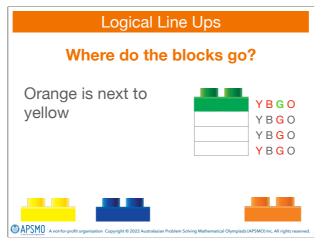


Have a think about all the information these clues give us. We know where green goes and where is doesn't go.

25

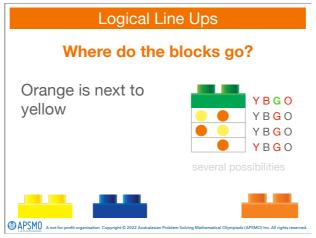


We also know that does yellow not go on the bottom, but it can't be at the top because green is there.

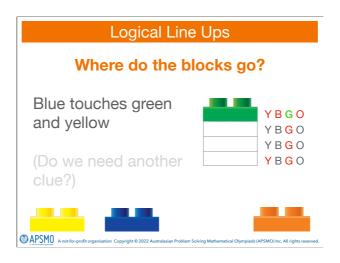


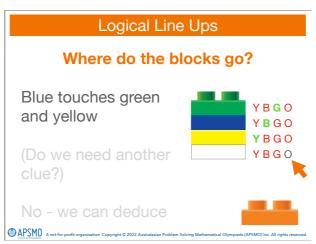
There are a few possibilities that could be true for this clue

27



The yellow must be in one of the middle spaces - and this leaves several options for where the orange could be.





We don't need another clue. If blue touches green we know where it **must** go. And if blue also touches yellow we can determine where yellow **must** go. And all that is left is orange

