

'You can start anywhere on the map. We started in the middle so that you cover the whole map. So use the coordinates 6,6'

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How many races can you see when you arrange these three cubes in different ways?

### Bracelets

Investigate the different shaped bracelets you could make from 18 different spherical beads. How do they compare if you use 24 beads?

### Making Cuboids

Let's say you can only use two different lengths - 2 units and 4 units. Using just these 2 lengths as the edges how many different cuboids can you make?

**Level 1**


Search for the hidden treasure!  
You can enter coordinates to test locations.

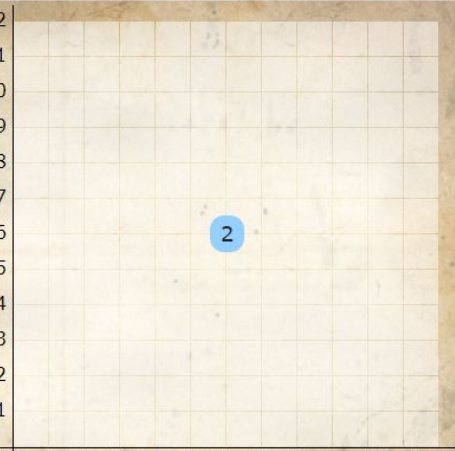
(  ,  )

Test coords

New game

Guesses so far	
Coordinates	Distance
6, 6	2 steps





You can click on coordinates to mark them if that would be helpful for your thinking

'Mark all the possible coordinates using the no. of steps.'

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(  ,  )

Test coords

New game

Guesses so far	
Coordinates	Distance
6, 6	2 steps





You can click on coordinates to mark them if that would be helpful for your thinking

'Try one of the coordinates. We tried 6,8.'

How many races can you see when you arrange these three cubes in different ways?

**Bracelets**  
Investigate the different shaped bracelets you could make from 18 different spherical beads. How do they compare if you use 24 beads?

**Making Cuboids**  
Let's say you can only use two different lengths - 2 units and 4 units. Using just these 2 lengths as the edges how many different cuboids can you make?

**Level 1**  
Search for the hidden treasure!  
You can enter coordinates to test locations.

( 6 , 8 )

Test coords New game

Guesses so far

Coordinates	Distance
6, 6	2 steps
6, 8	2 steps

You can click on coordinates to mark them if that would be helpful for your thinking

'We can now get rid of the coordinates which are no longer possible. For example, it cannot be 6,4 because that is 4 steps away from 6,8.'

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**Making Cuboids**

Let's say you can only use two different lengths - 2 units and 4 units. Using just these 2 lengths as the edges how many different cuboids can you make?

**Level 1**

Search for the hidden treasure!  
You can enter coordinates to test locations.

( 6 , 8 )

Test coords
New game

Guesses so far	
Coordinates	Distance
6, 6	2 steps
6, 8	2 steps

You can click on coordinates to mark them if that would be helpful for your thinking

'Let's try 5,7. We found the treasure!'

How many races can you see when you arrange these three cubes in different ways?

**Bracelets**

Investigate the different shaped bracelets you could make from 18 different spherical beads. How do they compare if you use 24 beads?

**Making Cuboids**

Let's say you can only use two different lengths - 2 units and 4 units. Using just these 2 lengths as the edges how many different cuboids can you make?

**Level 1**

You have found the treasure!  
It took you 3 guesses. Can you always find the treasure in fewer than 4 guesses?

( 5 , 7 )

Test coords
New game

Guesses so far	
Coordinates	Distance
6, 6	2 steps
6, 8	2 steps
5, 7	0 steps

You can click on coordinates to mark them if that would be helpful for your thinking

'We then repeated the strategy using different starting coordinates and were still able to find the treasure.'