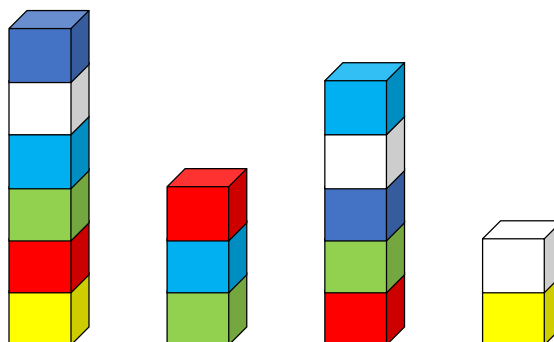


# Towers of coloured cubes

*The Busy Lizzie Maths Library*

## Towers of coloured cubes

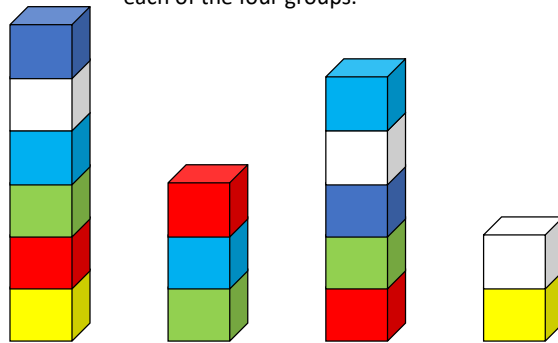
Evie is playing with some coloured toy bricks. She likes to keep them neat and tidy. She can move one or more bricks at a time. In only two moves, how can Evie make the piles the same height?



## Towers of coloured cubes

Evie is playing with some coloured toy bricks. She likes to keep them neat and tidy. She can move one or more bricks at a time. In only two moves, how can Evie make the piles the same height?

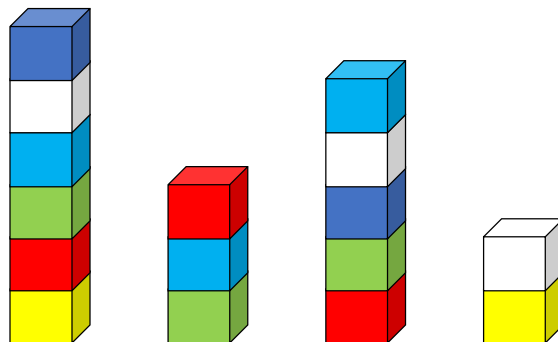
Evie must find out how many cubes she has. Then she must work out how many she needs in each of the four groups.



## Towers of coloured cubes

Evie is playing with some coloured toy bricks. She likes to keep them neat and tidy. She can move one or more bricks at a time. In only two moves, how can Evie make the piles the same height?

There are 16 cubes altogether. How many cubes do we need in each group?

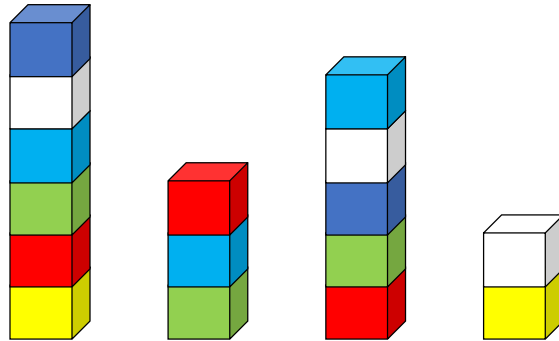


## Towers of coloured cubes

Evie is playing with some coloured toy bricks. She likes to keep them neat and tidy. She can move one or more bricks at a time. In only two moves, how can Evie make the piles the same height?

$$16 \div 4 = 4$$

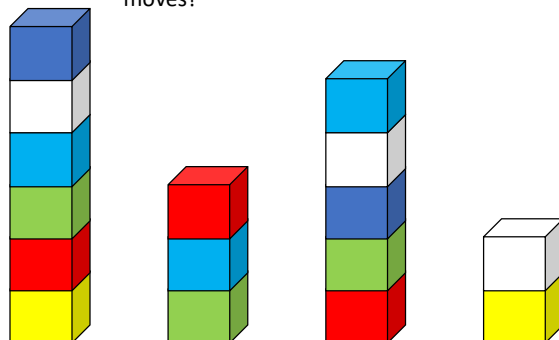
We need four cubes in each group.



## Towers of coloured cubes

Evie is playing with some coloured toy bricks. She likes to keep them neat and tidy. She can move one or more bricks at a time. In only two moves, how can Evie make the piles the same height?

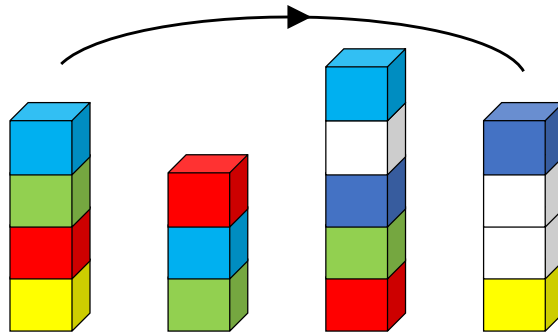
We can only make 2 moves with one or more cubes. How can we get towers of 4 in only 2 moves?



## Towers of coloured cubes

Evie is playing with some coloured toy bricks. She likes to keep them neat and tidy. She can move one or more bricks at a time. In only two moves, how can Evie make the piles the same height?

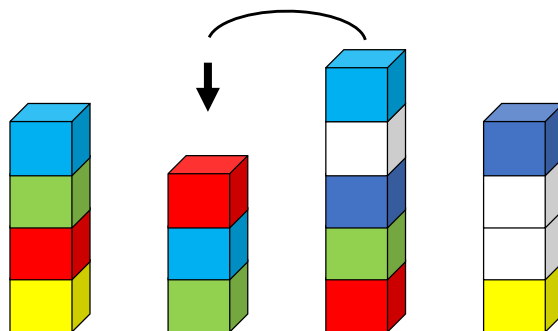
Take 2 cubes from the tallest tower and put them on the shortest tower.



## Towers of coloured cubes

Evie is playing with some coloured toy bricks. She likes to keep them neat and tidy. She can move one or more bricks at a time. In only two moves, how can Evie make the piles the same height?

Now take one cube from the tallest tower and put it on the shortest tower.



# Towers of coloured cubes

Evie is playing with some coloured toy bricks. She likes to keep them neat and tidy. She can move one or more bricks at a time. In only two moves, how can Evie make the piles the same height?

We now have four equal towers.

