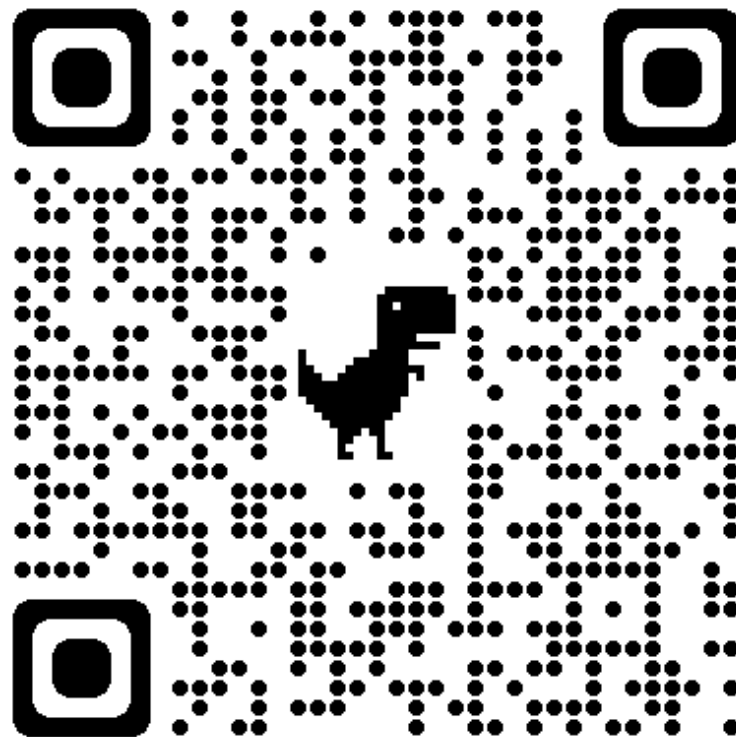


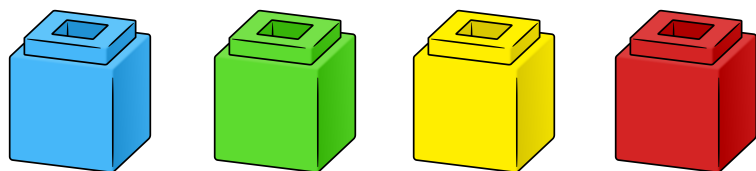


Block Chooser: QR Code



MATHS
QUEST

QR



Use these blocks to build tall towers that have a green block on top.

How many different towers can you make?

Name/s: _____

MATHS
QUEST

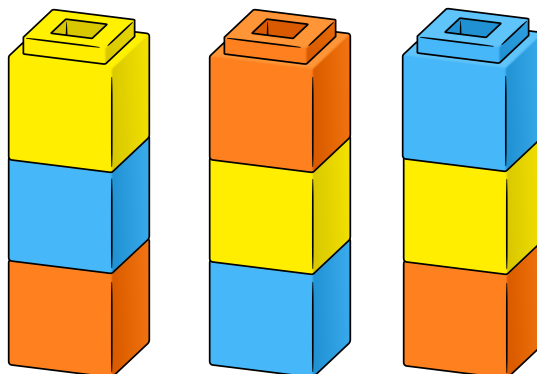
1

Here are some tall towers I have built with these three blocks.

I haven't made all the different possible solutions.

How many are missing? Draw them.

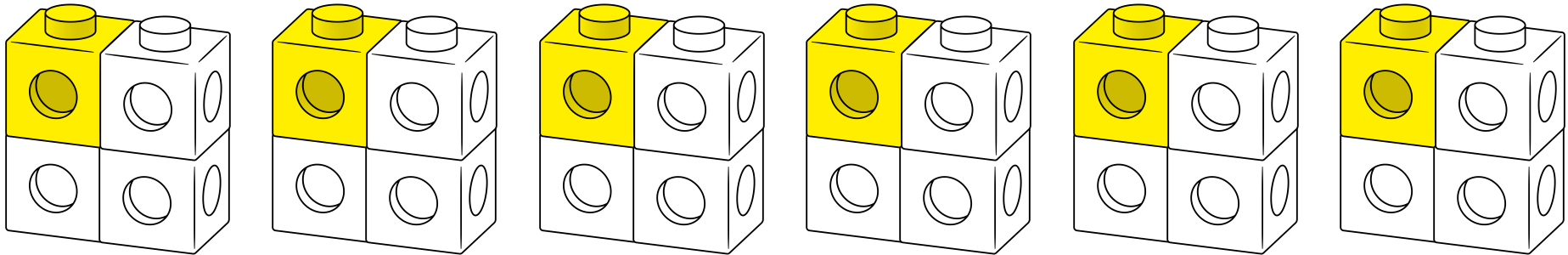
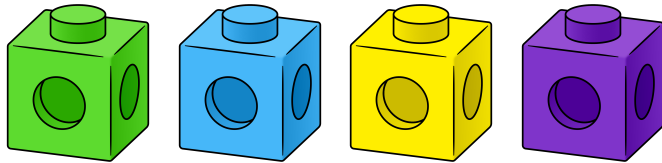
Name/s: _____



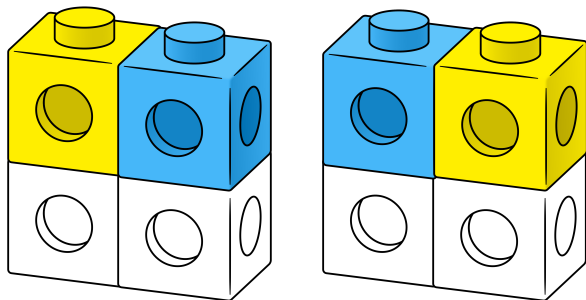
MATHS
QUEST

2

Can you find the six different ways to connect these blocks if the yellow block is in the top left corner?



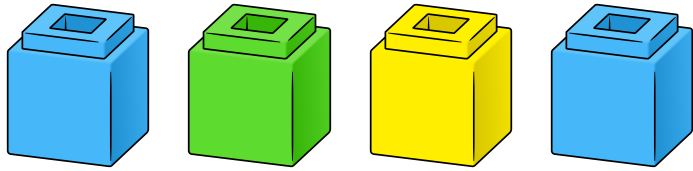
How many ways are possible when yellow and blue are both on top - in either corner?



Name/s: _____

MATHS
QUEST

3



Use these blocks to build tall towers that have a yellow block on top.

How many different towers can you make?

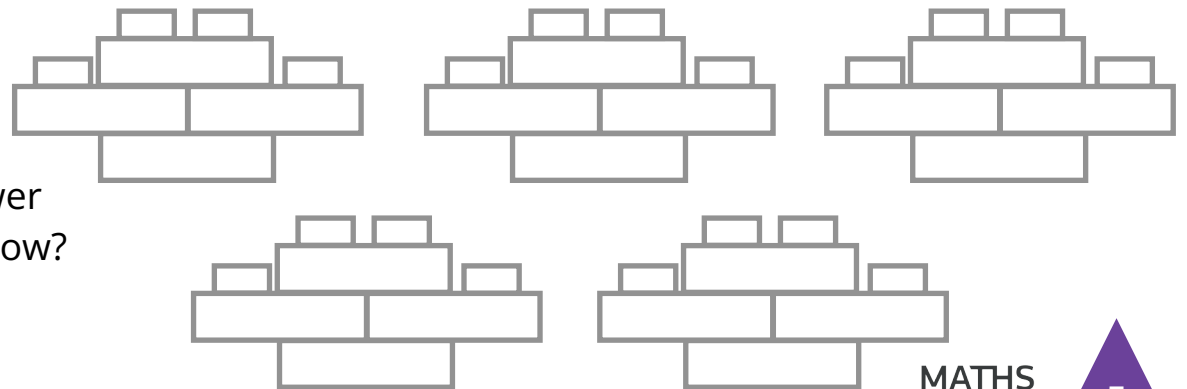
Name/s: _____

MATHS
QUEST

4



You might **not** need all the frames.



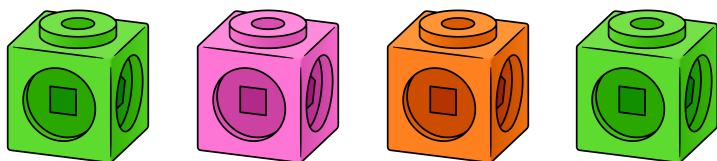
How many ways can I build this wide tower if the blue block is always in the middle row?

I have shown you one example.

Name/s: _____

MATHS
QUEST

5

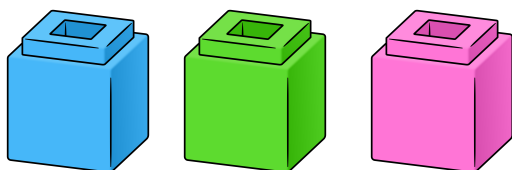


How many different towers can I build if green and pink can never touch?

Name/s: _____

MATHS
QUEST

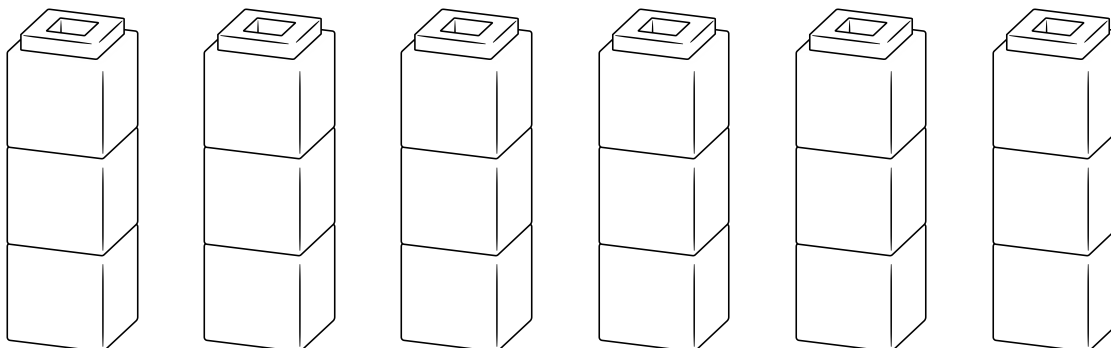
6



How many ways can I build a tower so that the pink block is always touching the green block?

Name/s: _____

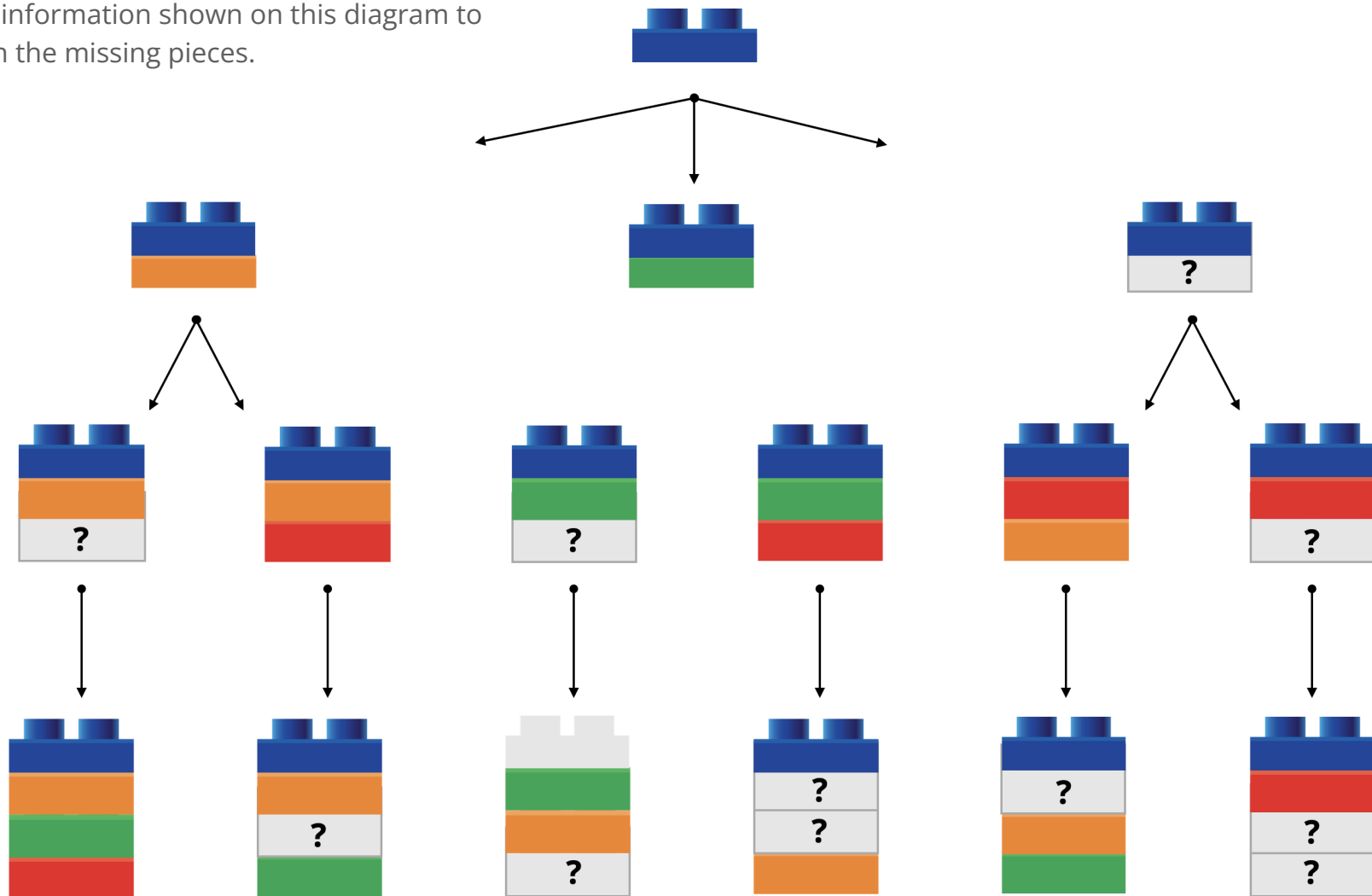
You might **not** need all the frames.



MATHS
QUEST

7

I used these blocks to build towers that have a blue block on top. I could make 6 different towers.
Use the information shown on this diagram to colour in the missing pieces.

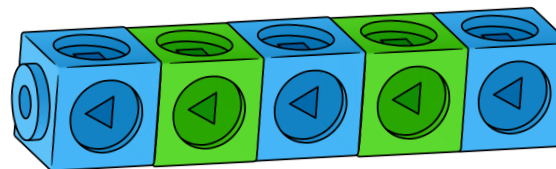


Name/s: _____

MATHS
QUEST

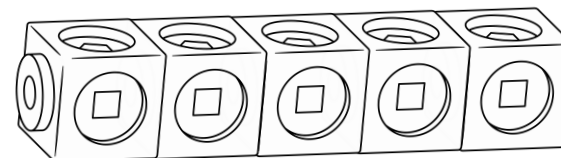
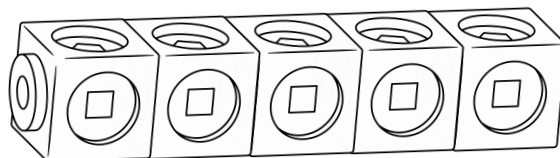
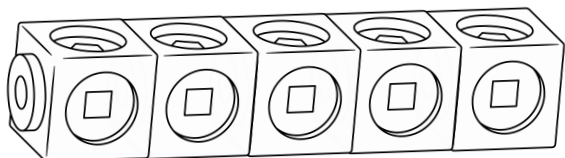
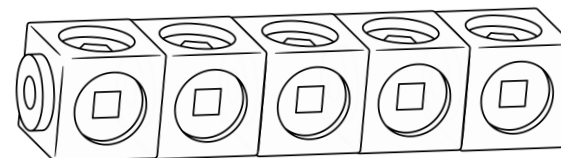
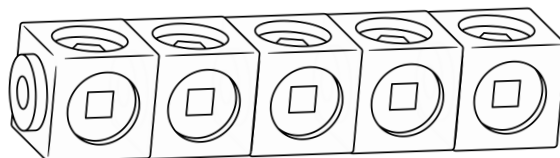
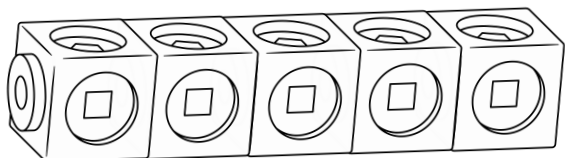
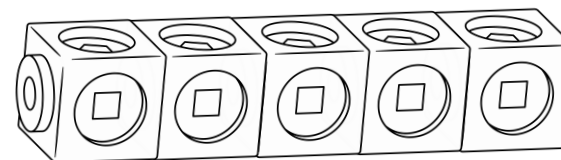
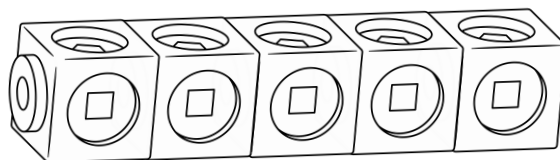
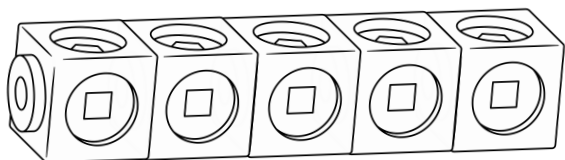
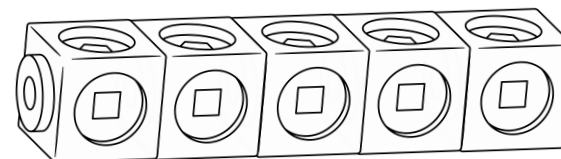
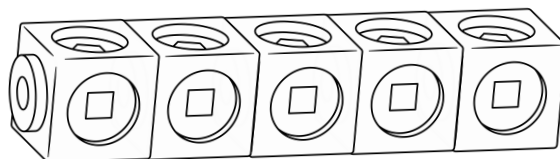
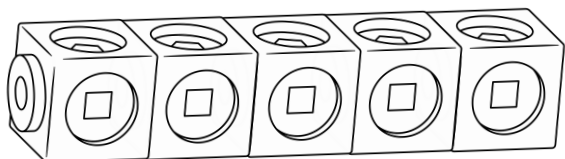
8

I have connected five blocks in a row.
 Three are blue and two are green.
 How many other ways can I connect them?



Challenge

You might **not** need all the frames.



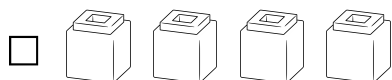
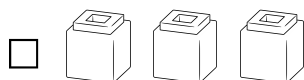
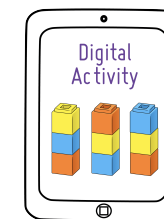
Name/s: _____

MATHS
QUEST

9

Tower Territory Block Chooser

Name/s: _____



☐ Allow duplicates

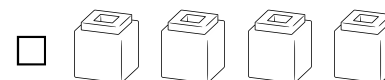
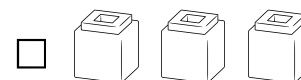
☐ Make all possible towers.

☐ Make all possible towers where _____ and _____ don't touch.

☐ Make all possible towers with a _____ block on top.

☐ Make all possible towers where matching colours touch.

☐ _____



☐ Allow duplicates

☐ Make all possible towers.

☐ Make all possible towers where _____ and _____ don't touch.

☐ Make all possible towers with a _____ block on top.

☐ Make all possible towers where matching colours touch.

☐ _____

Student Designed Challenge:

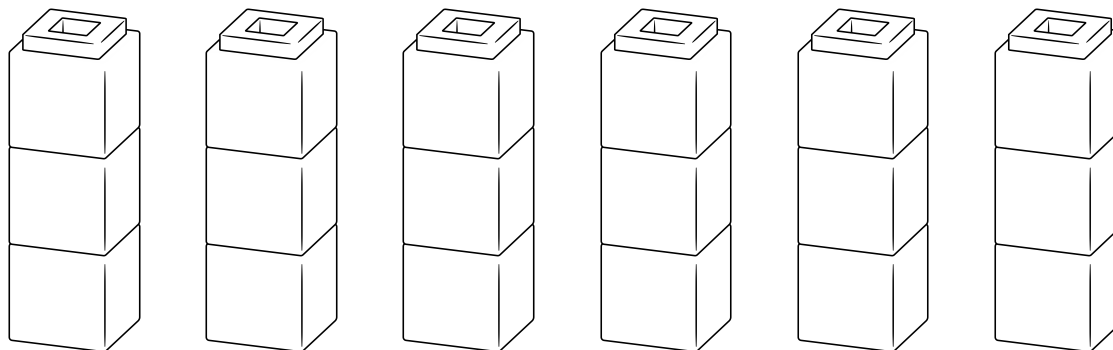
Created By: _____

Solved By: _____

MATHS
QUEST

Student Designed Challenge:

You might **not** need all the frames.



Created By: _____

Solved By: _____

MATHS
QUEST

Student Designed Challenge:

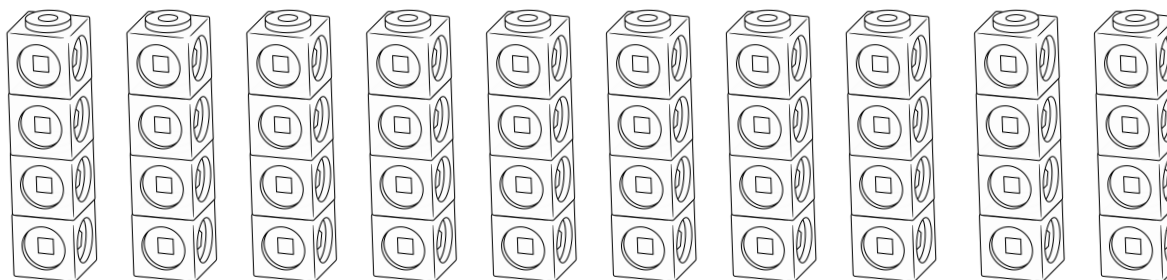
Created By: _____

Solved By: _____

MATHS
QUEST

Student Designed Challenge:

You might **not** need all the frames.



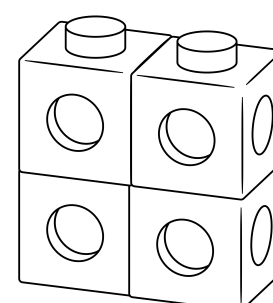
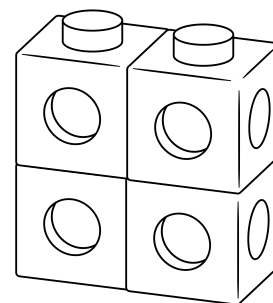
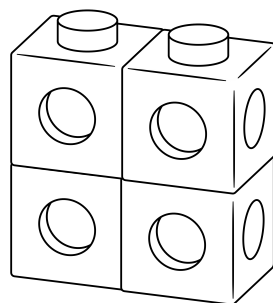
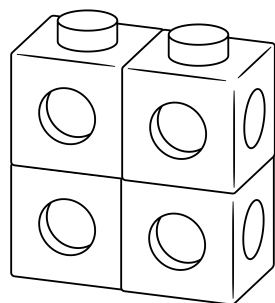
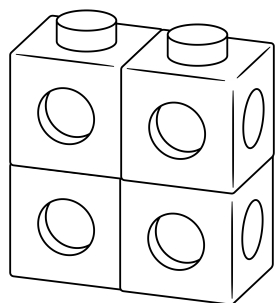
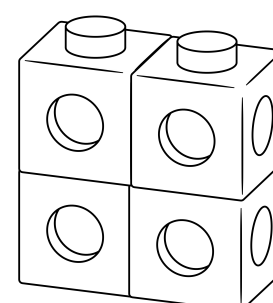
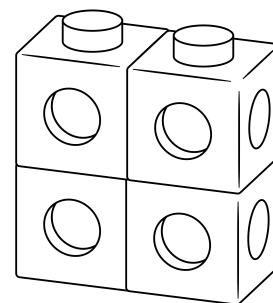
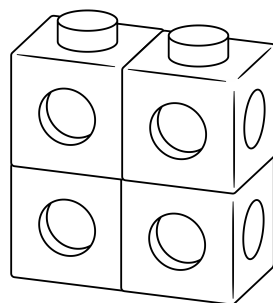
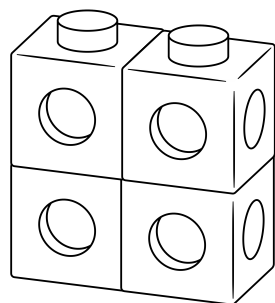
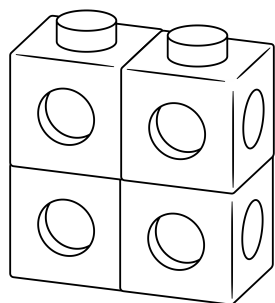
Created By: _____

Solved By: _____

MATHS
QUEST

Student Designed Challenge:

You might **not** need all the frames.



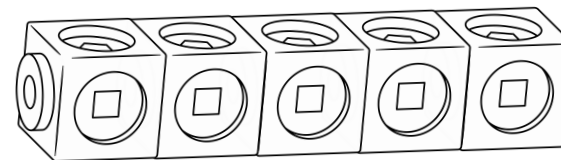
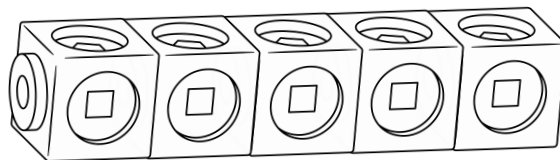
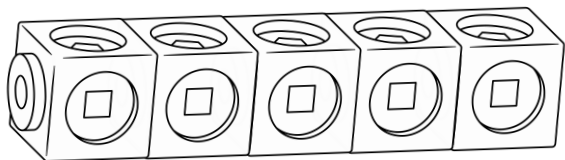
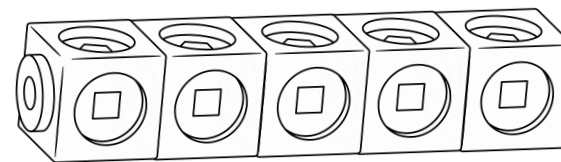
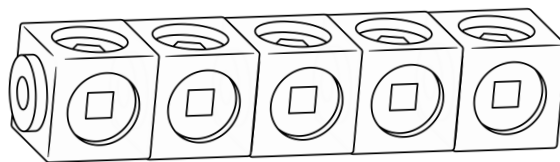
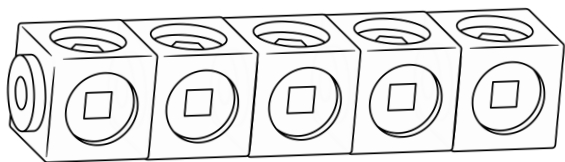
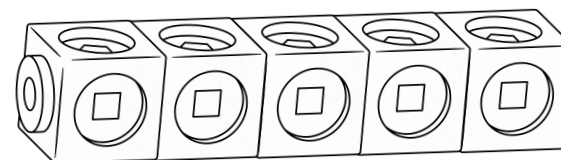
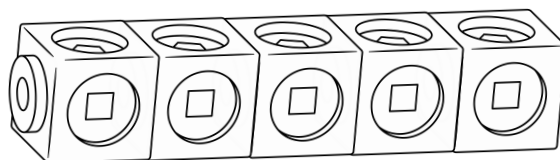
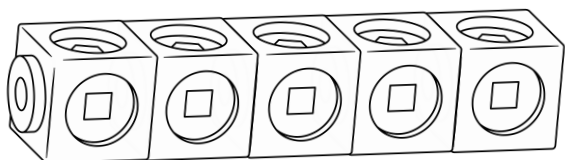
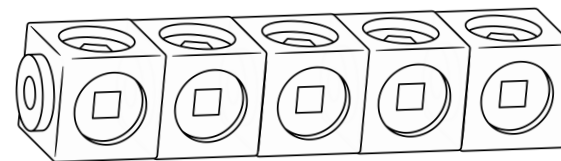
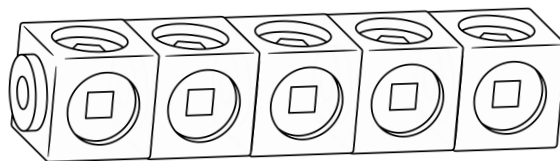
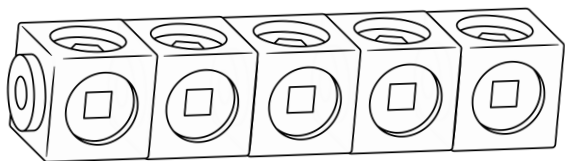
Created By: _____

Solved By: _____

**MATHS
QUEST**

Student Designed Challenge:

You might **not** need all the frames.



Created By: _____

Solved By: _____

**MATHS
QUEST**