RICH MATHEMATICAL TASK BOOKLET

MEASUREMENT

YEAR 2

Copy Masters

Task 1

Amaya has some mala flower garlands for her sisters wedding. She wants to keep the longest one for her sister.

Use measurement units to work out which is the longest flower garland.

Record the measurement unit and measurement count

Task 1 – Warm Up Activity

Paige's House

Leith's House

Task 1 - Independent Tasks

Measuring with multilink cubes. Estimate how long each object is, write your estimation down. Measure using the cubes and record.

I estimate the _____ is _____ blocks in length. It was _____ blocks.
I estimate the _____ is _____ blocks in length. It was _____ blocks.
I estimate the _____ is _____ blocks in length. It was _____ blocks.
I estimate the _____ is _____ blocks in length. It was _____ blocks.
I estimate the _____ is _____ blocks in length. It was _____ blocks.

Task 2

1) Use one stick to measure the card strip. Record the measurement unit and measurement count.

Draw on the card strip to show how you measured it.

2) Look at the ruler. What is the same? What is different?

3) Use a card strip to make a ruler with stick units.

4) Look at your card strip ruler and a ruler. What do you notice? What is the same? What is different?

5) Draw another card strip ruler which you have improved

Task 2 - Independent Tasks

Choose an object to measure using your stick ruler. Record the measurement count.

Measure the same object using one stick. Record the measurement count.

Is the measurement count the same or different?

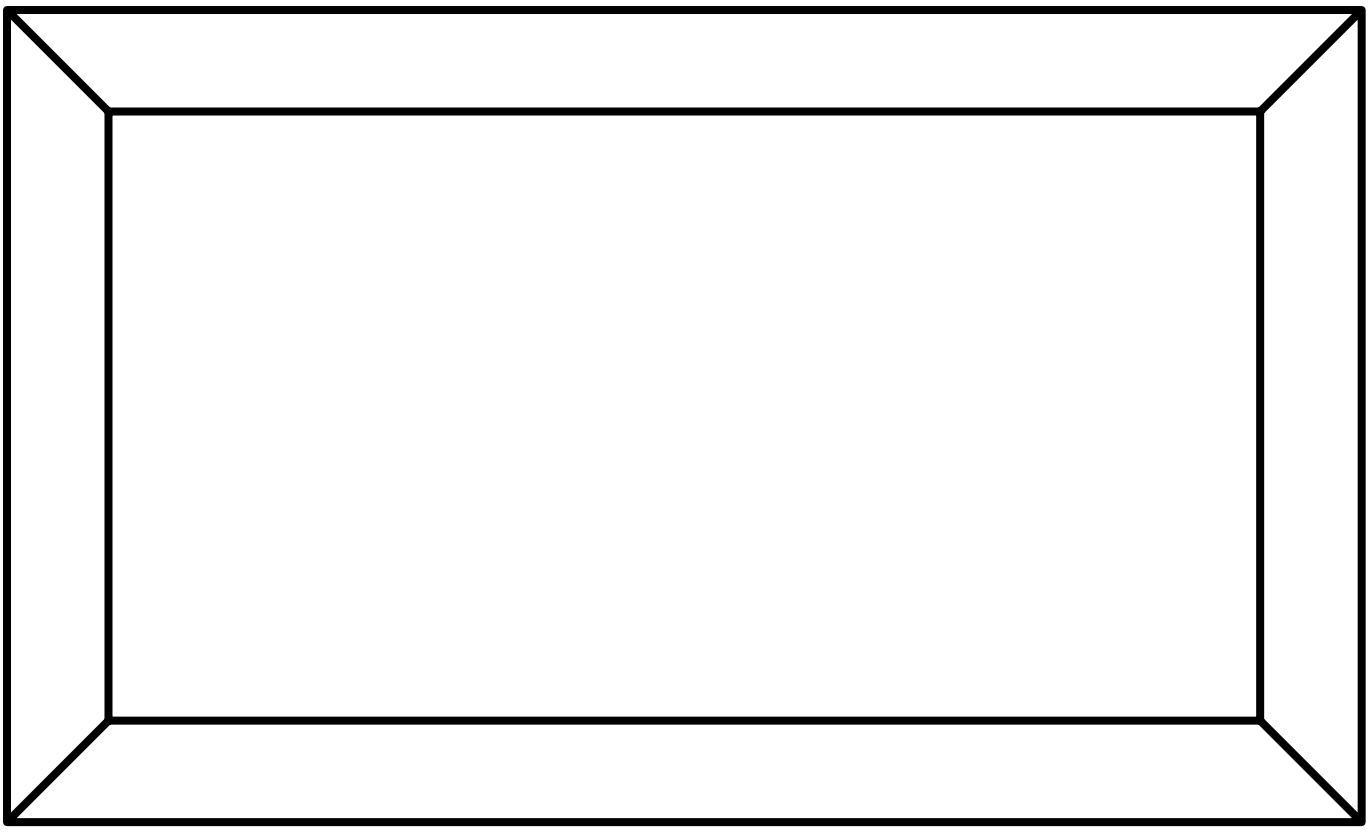
Measure different objects with your stick ruler and then check if you get the same measurement count when you measure with one stick.

Task 3

Padma is decorating a picture frame with shells for her Amma's birthday.

Use your stick ruler to find the perimeter of the picture frame. Record your measurement unit and measurement count.

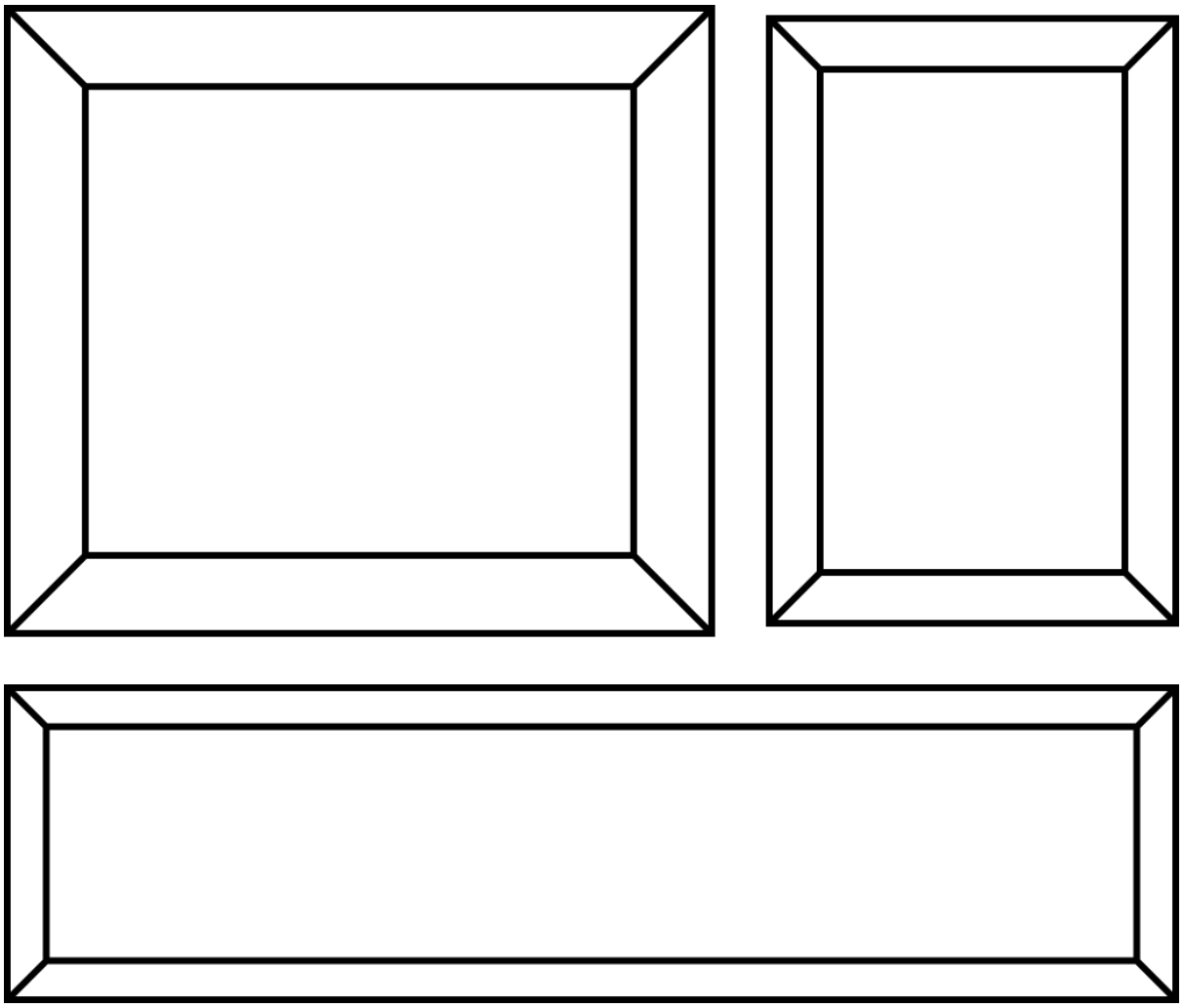
Find the shells that Padma should use to best fit the picture frame by measuring them. Record your measurement unit and measurement count for each shell.



Task 3 - Independent Tasks

Padma needs to get picture frames for the pictures her Amma's birthday.

Use your stick ruler to find the perimeter of each picture.



Record your measurement unit and measurement count.

Task 4

Which table in the classroom has the largest area?

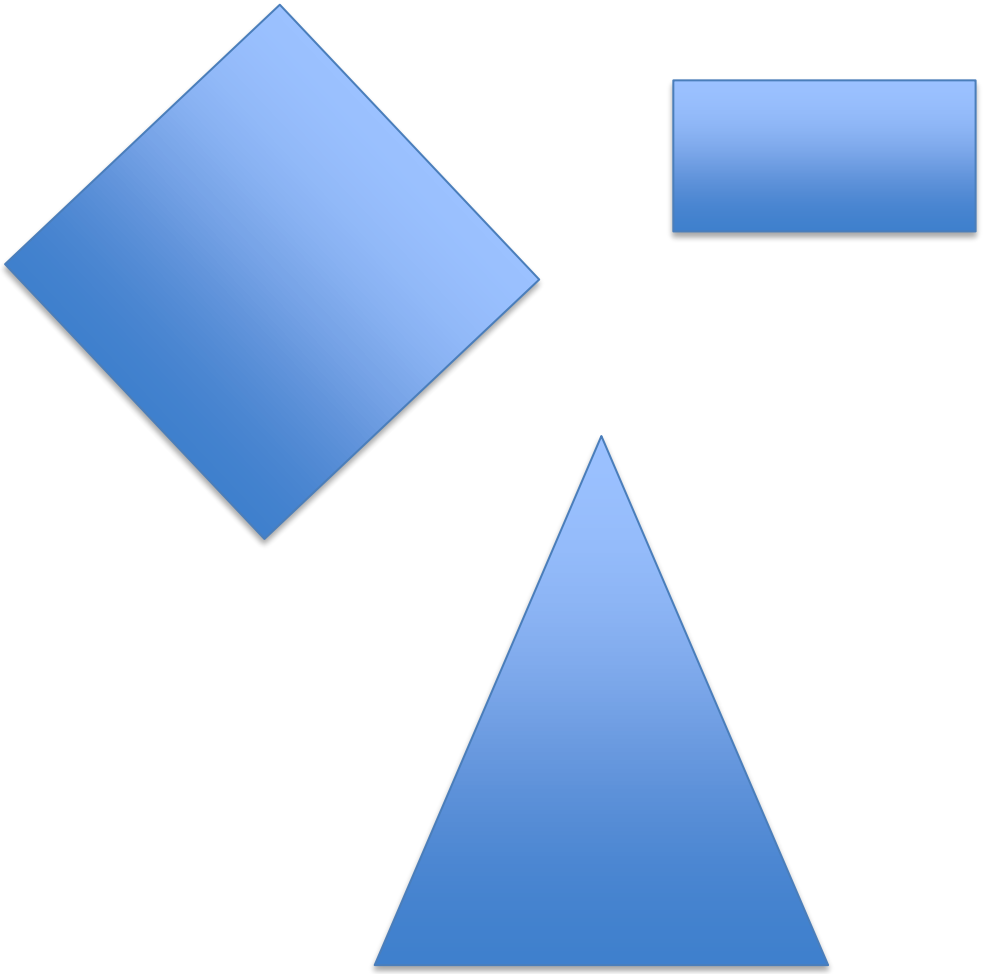
Estimate how many squares you will need to cover the table.

Measure the table. Record your measurement unit and the measurement count.

Task 4 - Independent Tasks

What is the perimeter of these shapes?

Use your stick ruler to find the perimeter of each shape.



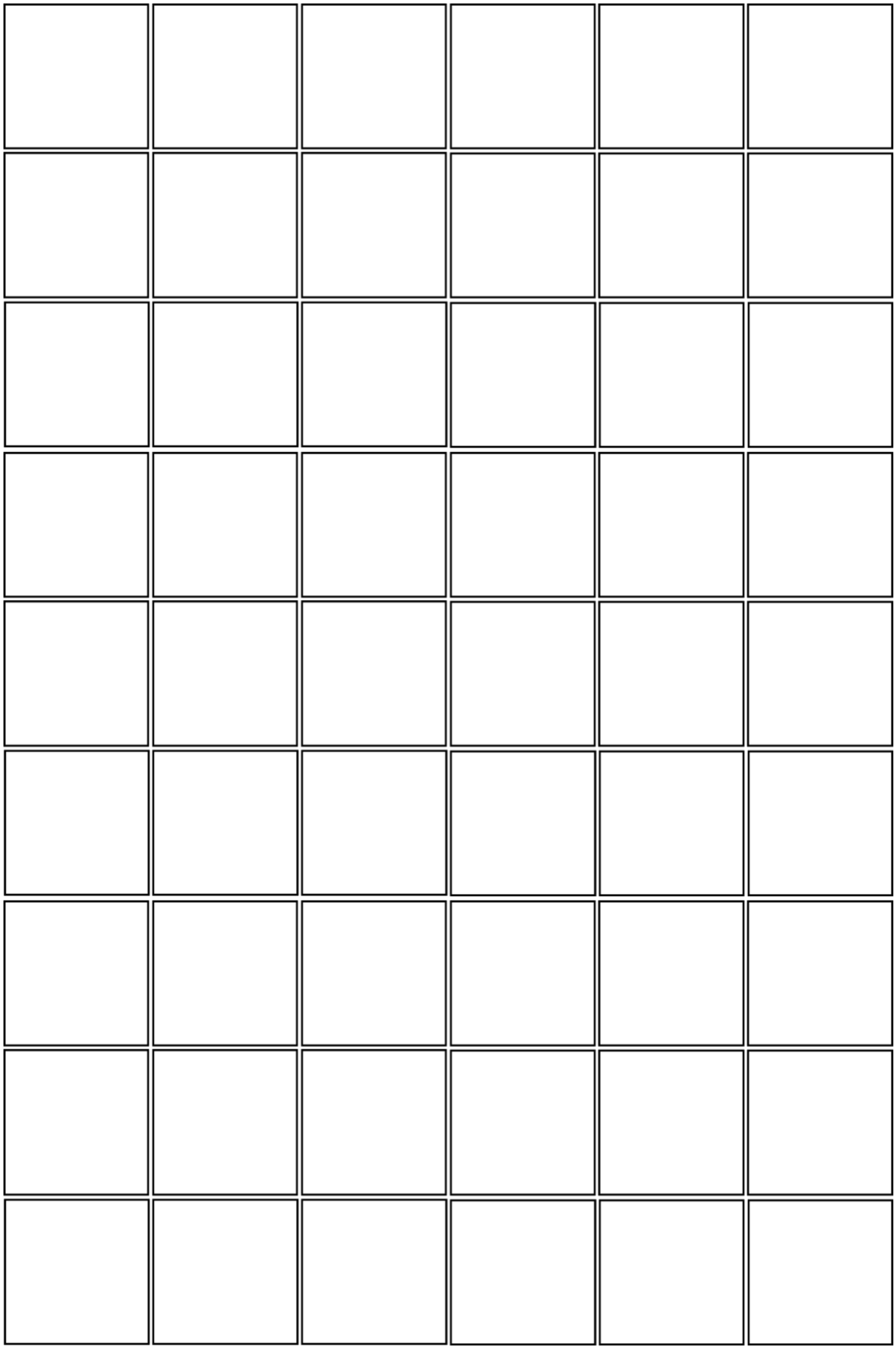
Record your measurement unit and measurement count.

Task 5

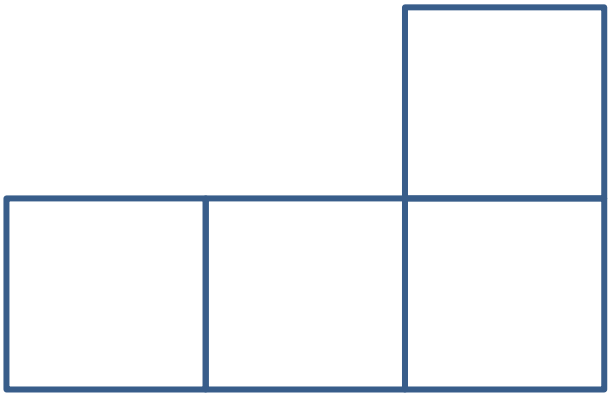
Mereana is working with a group of Mamas to make a tivaevae ta'orei.

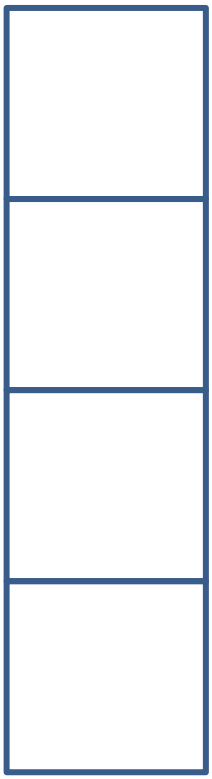
With the squares you can make a pattern for Mereana's tivaevae ta'orei.

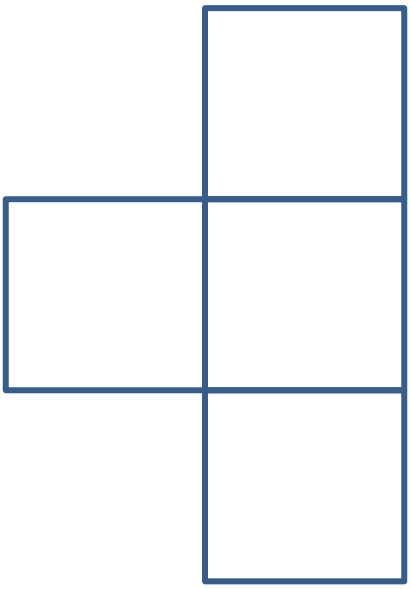
Make a pattern that has an area of 16 squares by connecting the square pieces.

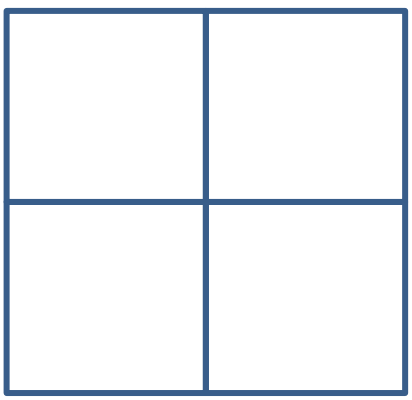


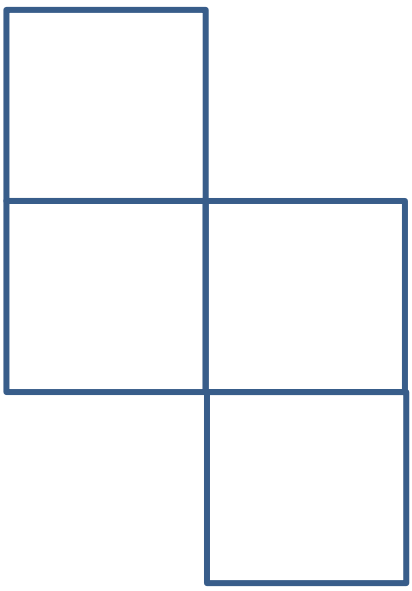
Task 5 – Connect





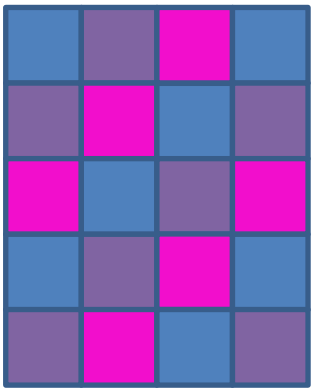






Task 5 - Independent Tasks

These are some patterns that Mereana has made for her tivaevae ta'orei.



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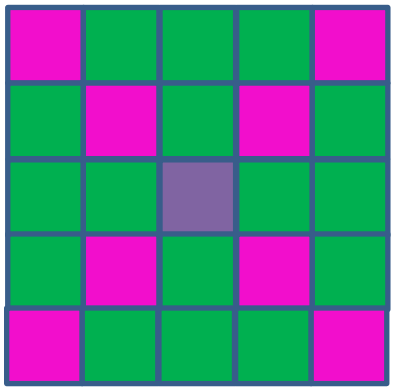

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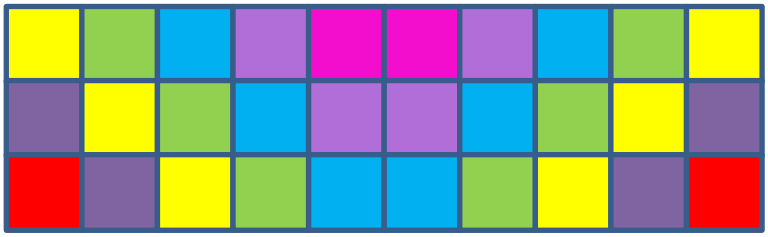

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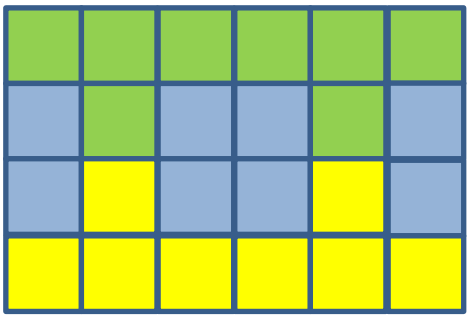

D

What is the area of each of the designs?

Task 6

Mereana is preparing a chilly bin full of banana poke to sell at the Pasifika festival. She would like to know which chilly bin will fit the most containers of poke. How many can she fit in each chilly bin and still shut the top?

Task 6 - Independent Tasks

Use the different material to measure the volume of each container.

Record the measurement count for each different measurement unit that you used. Draw a picture to show how you measured the different containers and write the numbers to match.

Task 7

Sione is making a treasure box for a pirate party. He is wondering which box has the largest volume. Can you help him by measuring the volume of the boxes?

Task 7 - Independent Tasks

What box has the most volume?
What box has the least volume?
Which boxes have the same volume?

Represent how you found the volume for each box and label which one has the most volume, the least volume, and same volume.

Task 8

How many children would fit in the one metre cube?

Can you work out the volume of these big boxes and work out which has the greatest volume, the smallest volume and similar volume?

Task 8 - Independent Tasks

Look at the cubic metre and use this to estimate the volume of the spaces in the pictures. Record your estimations in cubic metres and make sure you use m^3.

What has the largest volume?
What has the smallest volume?
Which have similar volumes?

Task 9

Use the cubes to build different cuboids.
Draw a representation of the cuboid and record the volume.

Task 9 - Independent Tasks

Three cuboids have the same volume but different shapes. Build these cuboids out of 1 cm cubes and then draw representations of your models showing how different shaped cuboids can have the same volume.

Task 10

Make different number lines to match the measurement markings on the measuring jug

Task 10 - Independent Tasks

Estimate how many millilitres would fit in each container. Write your estimate down.

Use one of the measuring jugs to compare how much liquid in millilitres the container would hold.

Make a number line which shows the scale for each container.

Task 11

Here are some bags. Fill them up with different materials or objects.

Use the balance scale to weigh the sets of objects with the one kilo mass.

Can you find some objects that have the same mass?

Can you find some objects that have less mass?

Can you find some objects that have more mass?

What mass in kilograms do the different sets of objects have?

Task 11 - Independent Tasks

These objects will be put into a parcel to send from the post office.

Can you use the cubes to work out the mass of each parcel?

Task 12

Sose is helping her mother buy some fruit at the supermarket. She needs to know the mass of the fruit to work out the cost.

Can you measure the mass of the fruit and record this on a number-line and using grams?