

A close-up photograph of several green fern fronds, showing the intricate, feathery structure of the leaves. The fronds are vibrant green and appear to have small droplets of water on their surfaces. The background is dark and out of focus, making the ferns stand out.

RICH MATHEMATICAL TASK BOOKLET

NUMBER. Multiplication & Division

YEAR 1

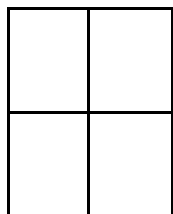
Copy Masters



Bobbie and Jodie Hunter

Task 1 (part 1)

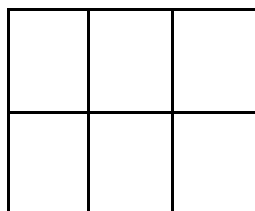
Kiri and John are playing with tiles. They make a pattern, so the tiles join together.



Can you make a pattern with your tiles the same as they have?

Can you draw your pattern?

Kiri and John make another grid:



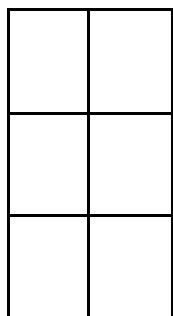
How did they make this? What could we call it?

Make the grid using the square tiles.

How many tiles did you need? Record this.

Task 1 (part 2)

They made another grid:



How many squares in this grid?

How is it related to the first grid?

Make the grid using the square tiles.

Copy both grids and draw these.

Task 1 (independent)

Mele has 26 shells and two bags.

What are the different ways that she could put the shells into the bags?

Can you record your ideas using drawing and number sentences?

Task 2

Chenyu and Lili are playing with tiles. They have eight square tiles that are the same. They make a grid so the tiles join together, can you make a grid with your tiles so that they are joined together?

Can you draw the pattern you have made with your tiles?

Have a go at drawing these grids:

A grid that is 4 by 3

A grid that is 2 by 5

A grid that is 3 by 3

A grid that is 5 by 2

Task 2 (independent)

Draw these grids first and then make them with the ice-block sticks.

A grid that is 2 by 4

A grid that is 4 by 2

A grid that is 3 by 4

A grid that is 6 by 2

Task 3

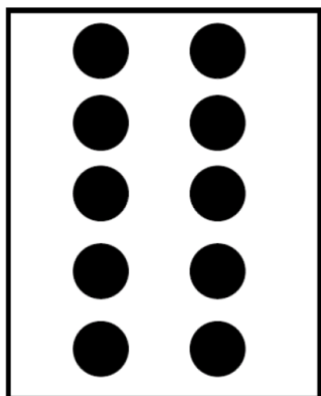
How many dots are there?

Draw a picture of the array and record the numbers you used to find the number of dots.

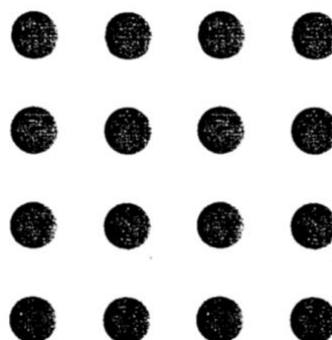
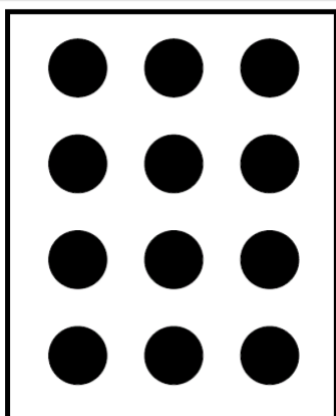
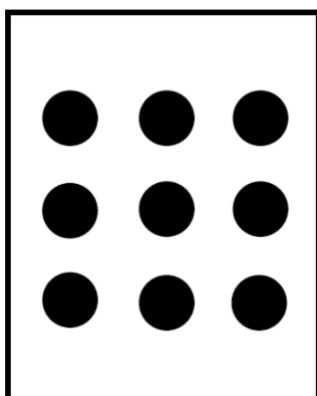
Task 3 (dot examples)

Examples of dot cards:

Two by five array



Other examples:



Task 3 (independent)

Can you make these arrays using counters and draw them? Record a matching number sentence.

8 by 2

3 by 5

4 by 5

6 by 3

Task 4

Tali has made some cupcakes. On each plate she has 4 cupcakes.

If there were 3 plates, how many cupcakes would there be altogether?

If there were 5 plates, how many cupcakes would there be altogether?

If there were 9 plates, how many cupcakes would there be altogether?

Task 4 (independent)

There are 2 plates with 4 cupcakes on each plate.

Draw an array to match this.

Write a number sentence to describe how many cupcakes there are altogether.

How many lots of 4 do you have?

There are 4 plates with 5 cupcakes on each plate.

Draw an array to match this.

Write a number sentence to describe how many cupcakes there are altogether.

How many lots of 5 do you have?

There are 2 plates with 10 cupcakes on each plate.

Draw an array to match this.

Write a number sentence to describe how many cupcakes there are altogether.

How many lots of 10 do you have?

What pattern can you see?

Task 5

Peni likes to collect pinecones and put them in rows to count them.

If there are 3 rows of pinecones and 6 pinecones in each row. How many pinecones are there altogether?

If there are 6 rows of pinecones and 5 pinecones in each row. How many pinecones are there altogether?

If there are 8 rows of pinecones and 3 pinecones in each row. How many pinecones are there altogether?

Task 5 (independent)

Peni likes to collect pinecones and put them in rows to count them.

If there are 2 rows of pinecones and 9 pinecones in each row. How many pinecones are there altogether?

If there are 5 rows of pinecones and 5 pinecones in each row. How many pinecones are there altogether?

If there are 4 rows of pinecones and 8 pinecones in each row. How many pinecones are there altogether?

Task 6

Litea and Nat are sharing a bag of 12 marbles. If they shared them fairly, how many would they each get?

Show how you can solve the task in different ways.

If Timo joined them as well, how many would they each get?

Show how you can solve the task in different ways.

If there were four friends in total, how many would they each get?

Show how you can solve the task in different ways.

Task 6 (independent)

Litea and Nat are sharing a bag of 8 marbles. If they shared them fairly, how many would they each get?

Draw how you solved the task using an array.

If there were 4 friends to share the 8 marbles, how many would they each get?

Draw how you solved the task using an array.

Litea and Nat are sharing a bag of 6 marbles. If they shared them fairly, how many would they each get?

Draw how you solved the task using an array.

If there were 3 friends to share the 6 marbles, how many would they each get?

Draw how you solved the task using an array.

Task 7

There are 10 tama in the sasa group. The faiaoga wants them to sit in five equal groups. How many tama will be in each group?

What if the faiaoga only wanted them to sit in two equal groups? How many tama would be in each group?

There are 9 tama in the drumming group. Each tama plays one instrument – a large drum, a shaker, or a small drum. The same number of tama play each instrument.

How many tama play each instrument?

Task 7 (independent)

There are 14 tama in the sasa group. The faiaoga wants them to sit in two equal groups. How many tama will be in each group?

What if the faiaoga only wanted them to sit in two equal groups? How many tama would be in each group?

There are 12 tama in drumming group. Each tama plays one instrument – a large drum, a shaker, or a small drum. The same number of tama play each instrument.

How many tama play each instrument?

Task 8

Teejay has 12 jellybeans. He wants to share them with his friends and give them 2 each. How many friends can he share them with?

How many friends could Teejay share his jellybeans with if he decides to give them 3 each instead?

How many friends could Teejay share his jellybeans with if he decides to give them 4 each instead?

Task 8 (independent)

Teejay has 6 jellybeans. He wants to share them with his friends and give them 2 each. How many friends can he share them with?

How many friends could Teejay share his jellybeans with if he decides to give them 3 each instead?

Teejay has 8 jellybeans. He wants to share them with his friends and give them 2 each. How many friends can he share them with?

How many friends could Teejay share his jellybeans with if he decides to give them 4 each instead?

Task 9

Lotu has \$16 in two dollar coins. How many coins does she have?

Draw how you solved the problem.

Lotu has 15 marbles. She wants to give her friends 3 marbles each.
How many friends can she give marbles to?

Draw how you solved the problem.

Task 9 (independent)

Lotu has \$20 in two dollar coins. How many coins does she have?

Draw how you solved the problem.

Lotu has 12 marbles. She wants to give her friends 3 marbles each.
How many friends can she give marbles to?

Draw how you solved the problem.

Lotu has 16 marbles. She wants to give her friends 4 marbles each.
How many friends can she give marbles to?

Draw how you solved the problem.

Task 10

Can you make these arrays using counters and draw them?

5 by 4

3 by 7

5 by 5

10 by 3

Record number sentences that use multiplication and division to match each one.

Task 10 (independent)

Sepi has 16 marbles.

Help her arrange them into rows that have the same amount in each.

How many rows can you make?

How many marbles are in each row?

Record your ideas using drawings and write the number sentences to match.

Task 11 (optional task)

Ade is decorating his birthday cake with his Dad with jellybeans.

First his Dad divides the cake into 2 sections.

Ade has 18 jellybeans which he carefully shares fairly on each section.

How many jellybeans does he put on each section?

What fraction of the jellybeans does he put on each section?

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First his Dad divides the cake into 4 sections.

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Task 12 (optional task)

Nikita has a bowl of M&Ms. She wants to count how many she has so she puts them into rows.

She has 20 M&Ms.

What are all the different ways that she can organise them?

Record a multiplication, division, and fraction sentence to describe each array.