

Monday: At-Home Investigation

At-Home Investigation

Here is an array of 12 muffins. They are lined up in rows. Use the squares to make some arrays of 24 and draw them.



Make as many arrays as you can find from your 24 squares. Cover your arrays with a tea towel or piece of paper and draw what you can remember:

How are your arrays similar? How are they different? Write number sentences to show how you could count them.

How might your answer change if you had one more square? Draw it or explain your thinking.

Arrays in your house:



Find an array in your house with more than 20 objects in it. Draw it here.

Problem 16: Arrays

2A made a vegetable garden near their classroom.


They planted lettuces in 5 rows of 3 plants.

How many lettuce plants did they have? Draw the garden.

 or  Draw the garden and work out how many plants there were.

How many lettuce plants would there have been if 2A had made 3 rows of 5?


 or  Show how you worked it out.

 What is the same about these two arrays?

2A had 6 tomato plants. They grew so well that 2A decided to double the number of plants they had.

How many would they have then?

 or  Show how you worked it out.

 Tell a friend how you solved the problem.

Problem solving:

Teacher initials:

Date:

Student solved the problem with:

- Minimal help
- Some prompting
- Solved after explanation
- Did not work out a solution by themselves
- N/A – not a novel problem

Peer Assessment

Name:

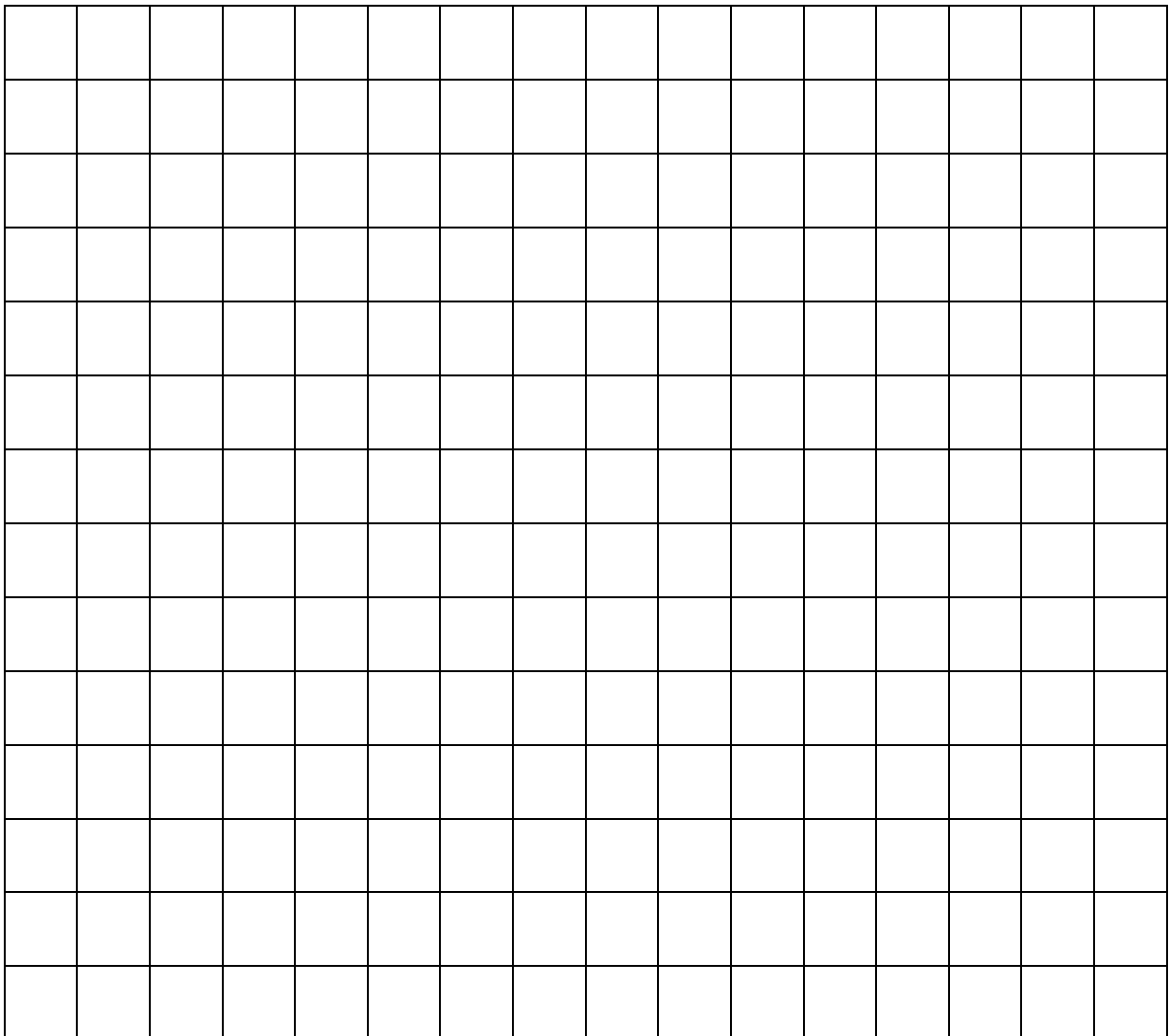


Wednesday: Application Lesson

Number game for 10-15 minutes: *Array fun*



You will need: a print out of the grid at the bottom of this page, 2 colours of pencil, one or two dice.

1. Player one rolls the two dice (or one dice two times). The numbers rolled are the length and width of your array to colour! (e.g. a 4 and a 3 would need a 4 x 3 array) You can turn it sideways to fit. Colour your array on the grid, then it is the other player's turn.
2. The player who wins is the last player who can draw their array.

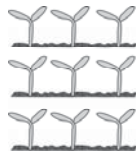


Application questions

1. 2A's vegetable garden has 12 carrot plants. Draw the different ways that these plants could be planted in rows.

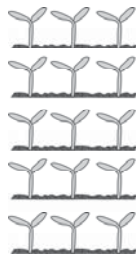
 or  Show the rows of plants that could be made.

2. These are some of the ways that the vegetable plants in the garden have been arranged. Fill in the boxes to describe the rows and numbers of plants.



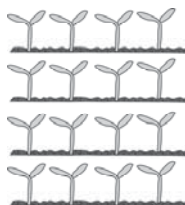
rows with plants in each row.

How many altogether?



rows with plants in each row.

How many altogether?



rows with plants in each row.

How many altogether?



rows with plants in each row.

How many altogether?

Interleaved practice

Number:

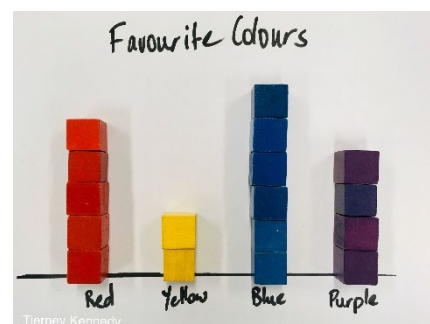
1. Starting at 121, count in 10s until you get to 201.
2. $42 - \underline{\quad} = 17$
3. What number is 10 more than 99?
4. Write the number 318 in words.
5. Share 16 counters to show quarters. Then show eighths.

Measurement/Geometry:

6. How many coffee cups fill up your big mixing bowl with water?
7. How long is it until lunch time?
8. Describe how to get from your bedroom to the kitchen. How many steps are needed?
How do you have to turn?

Chance/Data:

9. What can you tell from the information in the graph?
Write 3 true statements.



Friday: Connecting Lesson

Array Hunt

Go on an array hunt! Take photos or draw arrays that you can find in your house that have at least 25 objects in them. Count the number of items in your arrays and write down the numbers. Explain how you counted them.

How many squares would there be on this fabric? How do you know?



If we plant one seedling in each pot, how many seedlings in that?
You have to work it out without counting them all!
Write down your number sentences to show your thinking.

